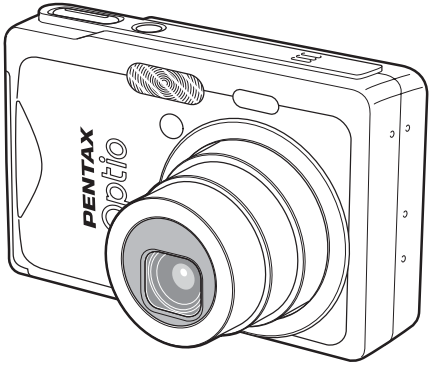
PENTAX™

Digital Camera

Optio S7

Operating Manual



To ensure the best performance from your camera, please read the Operating Manual before using the camera.

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Thank you for purchasing this PENTAX Digital Camera.
Please read this manual before using the camera in order to get the most out of all the features and functions. Keep this manual safe, as it can be a valuable tool in helping you to understand all the camera's capabilities.

Regarding copyrights

Images taken using the PENTAX Digital Camera that are for anything other than personal enjoyment cannot be used without permission according to the rights as specified in the Copyright Act. Please take care, as there are even cases where limitations are placed on taking pictures even for personal enjoyment during demonstrations, performance or of items on display. Images taken with the purpose of obtaining copyrights also cannot be used outside the scope of use of the copyright as laid out in the Copyright Act, and care should be taken here also.

To users of this camera

- There is a possibility that recorded data may be erased or that the camera may not function correctly when used in surroundings such as installations generating strong electromagnetic radiation or magnetic fields.
- The liquid crystal panel used in the LCD display is manufactured using extremely high precision technology. Although the level of functioning pixels is 99.99% or better, you should be aware that 0.01% or fewer of the pixels may not illuminate or may illuminate when they should not. However, this has no effect on the recorded image.

Regarding trademarks

- PENTAX, Optio and smc PENTAX are trademarks of PENTAX Corporation.
- SD logo and SDHC logo are trademarks.
- DivX, DivX Certified, and associated logos are trademarks of DivX, Inc. and are used under license.
- All other brands or product names are trademarks or registered trademarks of their respective owners.

This product supports PRINT Image Matching III.
PRINT Image Matching enabled digital still cameras, printers and software help photographers to produce images more faithful to their intentions. Some functions are not available on printers that are not PRINT Image Matching III compliant.
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PRINT Image Matching is a trademark of Seiko Epson Corporation. The PRINT Image Matching logo is a trademark of Seiko Epson Corporation.
Red Eye software © 2003-2006 FotoNation Inc. Face Tracker software © 2005-2006 FotoNation Inc. In Camera Red Eye -- covered by U.S. Patent No. 6,407,777 and 7,042,505. Other patents Pending.

Regarding PictBridge

PictBridge allows the user to connect the printer and digital camera directly, using the unified standard for the direct printout of images. You can print images directly from the camera through a few simple operations.

- There is a possibility that the illustrations and the display screen of the LCD monitor in this manual are different from the actual product.
- Both SD memory cards and SDHC memory cards are referred to as SD memory cards in this manual.

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USING YOUR CAMERA SAFELY

We have paid close attention to the safety of this product. When using this product, we request your special attention regarding items marked with the following symbols.

Warning	This symbol indicates that violating this item could cause serious personal injury.
Caution	This symbol indicates that violating this item could cause minor or medium personal injury, or material loss.

About the Camera

Warning

- Do not attempt to take the camera apart or remodel the camera. High voltages are present within the camera, and there is therefore a danger of electric shocks if the camera is taken apart.
- If the inside of the camera should become exposed as a result of, for example, the camera being dropped, please do not under any circumstances touch such exposed portions, as there is a danger of receiving an electric shock.
- Wrapping the strap of the camera around your neck is also dangerous. Please take care that small children do not hang the strap around their necks.
- To avoid the risk of it being swallowed by mistake, keep the SD Memory Card out of the reach of small children. Seek medical attention immediately if a memory card is accidentally swallowed.
- Use an AC adapter that is of the power and voltage specified for exclusive use with this product. The use of an AC adapter other than that specified exclusively for use with this product may cause fire or electric shocks.
- If the camera emits smoke or a strange smell, or in the event of any other irregularity, stop using the camera immediately, remove the battery or disconnect the AC adapter and contact your nearest PENTAX service center. Continued use of the camera may result in fire or electric shock.

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⚠ Caution

- Never try to disassemble or short the battery. Also, do not dispose of the battery in fire, as it may explode.
- Do not charge any batteries other than rechargeable lithium-ion battery D-LI8. The battery could explode or catch fire.
- Do not place your finger on the flash when it is discharging as there is a risk of burns.
- Do not discharge the flash while it is touching your clothing as there is a risk of discoloring.
- If any battery leakage at all should come in contact with your eyes, do not rub them. Flush your eyes with clean water and get medical attention immediately.
- If any battery leakage at all should come in contact with skin or clothes, wash the affected areas thoroughly with water.
- Remove the battery from the camera immediately if it becomes hot or begins to smoke. Be careful not to burn yourself during removal.
- Some portions of the camera heat up during use, so please take care, as there is a risk of low temperature burns if such portions are held for long periods of time.
- Should the LCD be damaged, be careful of glass fragments. Also, be careful not to allow the liquid crystal to get on your skin or in your eyes or mouth.

About the Battery Charger and the AC Adapter

⚠ Warning

- Do not use the product at a voltage other than the specified voltage. Use with a power source or voltage other than that designed can cause a fire or electrical shock. The specified voltage is 100-240 V AC.
- Do not disassemble or modify the product. This can cause a fire or electrical shock.
- If the generation of smoke or strange odor from the product or other abnormality occurs, immediately discontinue using and consult a PENTAX Service Center. Continuing to use the product can cause a fire or electrical shock.
- If water should happen to get inside the product, consult a PENTAX Service Center. Continuing to use the product can cause a fire or electrical shock.

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- Before charging the battery, check that the battery charging contacts of both the camera and the charging stand are clean and dry. Dirt and liquid on the contacts can cause overheating, fire or electrical shock.
- If thunderstorm should be present during use of the battery charger or AC adapter, unplug the power cord and discontinue use. Continuing to use the product can cause damage to the equipment, fire or electrical shock.
- Wipe off the plug of the power cord if it should become covered with dust. This can cause a fire.

⚠ Caution

- Do not place heavy objects on the AC plug cord, allow heavy objects to drop onto it or allow the AC plug cord to become damaged due to excessive bending. If the AC plug cord becomes damaged, consult a PENTAX Service Center.
- Do not short or touch the output terminals of the product while it is still plugged in.
- Remove the battery and unplug the AC plug cord when not using the battery charger.
- Do not plug in the AC plug cord with wet hands. This can cause an electrical shock.
- Do not subject the product to strong impacts or allow it to drop onto a hard surface. This can cause a malfunction.
- To reduce the risk of hazards, use only CSA/UL Certified power supply cord set, cord is Type SPT-2 or heavier, minimum NO.18 AWG copper, one end with a molded-on male attachment plug cap (with a specified NEMA configuration), and the other is provided with a molded-on female connector body (with a specified IEC nonindustrial type configuration) or the equivalent.
- Do not use the battery charger to charge batteries other than the ones specified. This can cause overheating or malfunctions.

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Care to be Taken During Handling

- Take the international warranty card with you when you travel abroad. Also take the Worldwide Service Network listing that is included in the package.
  This will be useful if you experience problems abroad.
- When the camera has not been used for a long time, confirm that it is still working properly, particularly prior to taking important pictures (such as at a wedding or during travelling). Contents of a recording such as images and sounds cannot be guaranteed if recording, playback or data transfer from your camera to a computer, etc. is not possible due to a malfunction of your camera or recording medium (SD Memory Card), etc.
- The lens on this camera is not exchangeable. The lens is not removable.
- Do not clean the product with organic solvents such as thinner, alcohol or benzene.
- Places of high temperature and humidity should be avoided. Particular care should be taken regarding vehicles, which can become very hot inside.
- Storing the camera where pesticides and chemicals are handled should be avoided. Remove from case and store in a well-ventilated place to prevent the camera from becoming moldy during storage.
- Do not use the camera where it may come in contact with rain, water or any other liquid, because the camera is not weather, water, or liquid resistant.
- Ensure that the camera is not subjected to substantial vibrations, shocks or pressure. Place the camera on a cushion for protection when the camera is subjected to the vibrations of a motorbike, car, or ship, etc.
- The temperature range in which the camera can be used is 0°C to 40°C (32°F to 104°F).
- The liquid crystal display will become black at high temperature but will return to normal when normal temperatures are returned to.
- The response speed of the liquid crystal display becomes slow at low temperatures. This is due to the properties of the liquid crystal and is not a fault.
- Periodic checks are recommended every 1 to 2 years in order to maintain high-performance.

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- If the camera is subjected to rapid temperature changes, condensation may form on the inside and outside of the camera.
  Therefore put the camera in a bag or plastic bag, and take the camera out when the difference in temperature has subsided.
- Avoid contact with garbage, dirt, sand, dust, water, toxic gases, salt, etc. as this may cause damage to the camera. If rain or drops of water get onto the camera, please wipe dry.
- Refer to “Precautions When Using an SD Memory Card” (p.24) regarding the SD Memory Card.
- The AC plug cord supplied with the camera is for exclusive use with the Battery charger D-BC8. Do not use it with any other equipment.
- Please note that formatting an SD Memory Card or built-in memory will delete all data, however it may still be possible to recover that data using off-the-shelf data recovery software. Please manage your camera’s memory at your own risk.
- Please do not press forcefully on the LCD monitor. This could cause breakage or malfunction.
- Be careful not to sit down with the camera in your back pocket as this may damage the exterior of the camera or the LCD monitor.
- When using a tripod with the camera, be careful not to overtighten the screw in the tripod socket on the camera.

LED Safety Standard
This device is a digital still camera that conforms to the safety standard (IEC60825-1) for a Class 1 LED product.

Regarding Product Registration
To serve you better, we request that you complete the product registration, which can be found on the CD-ROM supplied with the camera or the PENTAX website.
Thank you for your cooperation.
Refer to the PC Connection Manual (bottom right of front side) for more information.

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Contents of the Operating Manual

This operating manual contains the following chapters.

1 Getting Started

This chapter explains what you need to do after purchasing the camera before you start taking pictures. Be sure to read it and follow the instructions.

2 Quick Start

This chapter explains the simplest way to take pictures and play back images. Use it if you want to start taking pictures straightaway.

3 Common Operations

This chapter explains common operations such as the functions of the buttons and how to use the menus. For more details, refer to the respective “Taking Pictures”, “Recording and Playback of Sound”, “Playback/Deleting/Editing” and “Settings” chapters.

4 Taking Pictures

This chapter explains the various way of capturing images and how to set the relevant functions, including how to use the Capture Mode screen to select the capture mode best suited to the situation.

5 Recording and Playback of Sound

This chapter explains how to record sound only or add a voice memo to an image, and how to play back voice memos.

6 Playback/Deleting/Editing

This chapter explains how to play back images on the camera or on a TV, how to delete, resize and crop images, and how to print images directly to the printer.

7 Settings

This chapter explains how to set the camera-related functions.

8 Appendix

This tells you about the messages displayed on the LCD monitor and what to do in the event of trouble.

The meanings of the symbols used in this operating manual are explained below.

☞	indicates the reference page number for an explanation of the related operation.
memo	indicates information that is useful to know.
Caution	indicates precautions to be taken when operating the camera.

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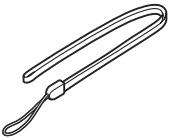
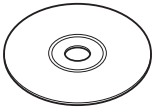
Checking the Contents of the Package

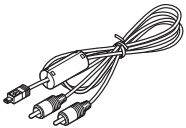
Camera
Optio S7



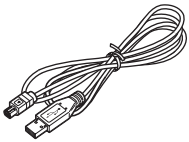
Strap
O-ST20 (∗)



Software (CD-ROM)
S-SW56

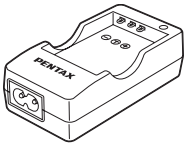


AV cable
I-AVC7 (∗)



USB cable
I-USB17 (∗)

Rechargeable
lithium-ion battery
D-LI8 (∗)



Battery charger
D-BC8 (∗)

AC plug cord D-CO2(∗)

Operating Manual
(this manual)

Operating Manual
(PC Connection Manual)

Items marked with an asterisk (∗) are also available as optional accessories.
For other optional accessories, refer to “Optional Accessories” (p.174).

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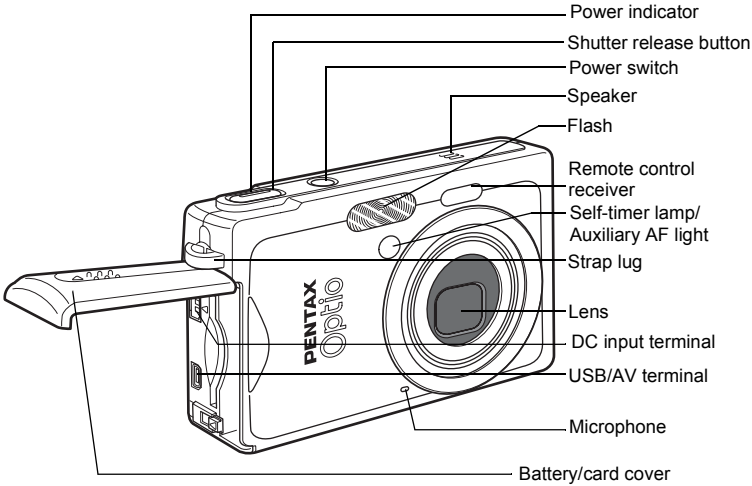
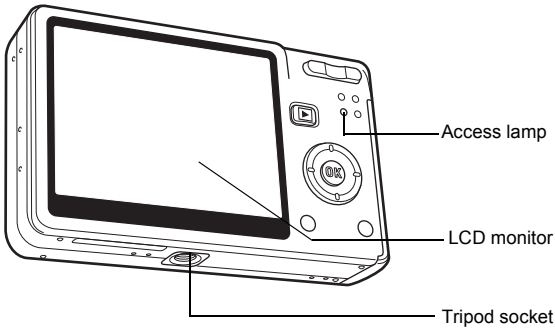
Names of Parts

Front



Back



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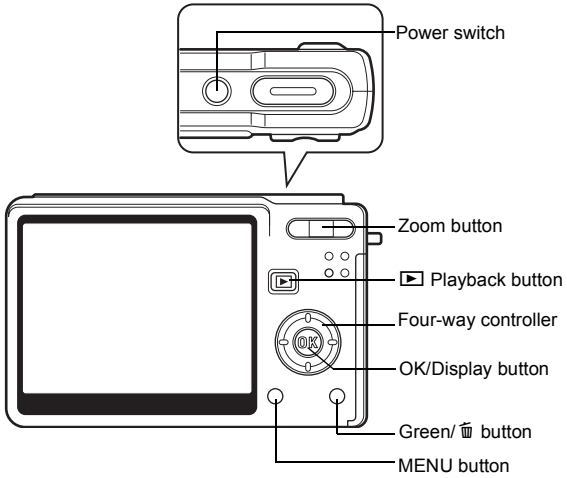
Names of Operating Parts



Guide Indications

A guide to available button operations appears on the LCD monitor during operation.

The buttons are indicated as shown below.

Four-way controller (▲)	▲
Four-way controller (▼)	▼
Four-way controller (◀)	◀
Four-way controller (▶)	▶
MENU button	MENU
Shutter release button	SHUTTER
OK button	OK

Zoom button	
for digital zoom	
for cropping	
Green/ button	
for operating as the Green button	
for deleting an image	

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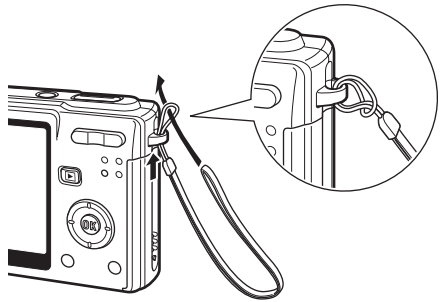
Attaching the Strap



Pass the narrow end of the strap through the strap lug and pass the other end through the loop.

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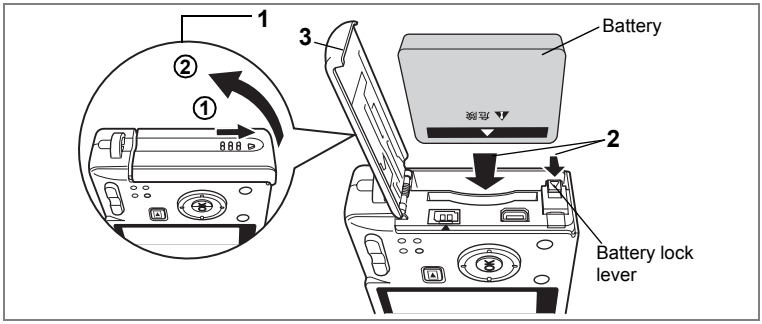

Installing the Battery

Install the battery provided with the camera.

1 Open the battery/card cover.

Slide the battery/card cover in the direction indicated by the arrow ① and flip the cover open ②.

2 Insert the battery with the ▲ symbol facing toward the LCD monitor while using the side of the battery to press the battery lock lever in the direction indicated by the arrow.

3 Close the battery/card cover.

Removing the Battery

1 Open the battery/card cover.

2 Release the battery by using your finger to press the battery lock lever in the same direction as when you inserted the battery.

Pull the battery out.

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If you intend to use the camera continuously for a long period, use of the AC adapter kit K-AC8 (optional) is recommended. (☞p.21)

- Insert the battery correctly. If the battery is incorrectly oriented, it may cause a malfunction.
- Do not remove the battery when the camera is turned on.
- If you do not intend to use the camera for a long time, remove the battery.
- If the camera is left without the battery for a long time, the date will be reset.

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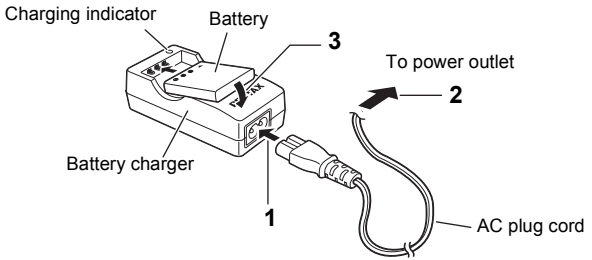

Charging the Battery

Use the battery charger D-BC8 supplied with the camera to charge the battery before using the camera for the first time or when the [Battery depleted] message appears.

1 Connect the AC plug cord to the battery charger.

2 Plug the AC plug cord into the power outlet.

3 Place the battery in the battery charger so that the PENTAX name is visible.

The charging indicator on the charger lights red while the battery is being charged and changes to green when charging is completed.

4 Remove the battery from the battery charger when charging is completed.

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- The time required for full charge is about 100 minutes. The appropriate ambient temperature range for charging the battery is 0°C – 40°C (32°F to 104°F).
- The charging time may vary depending on the ambient temperature and charging conditions.
- When the battery reaches the end of its service life, the time that the camera can be operated becomes shorter even when the battery is fully charged. In this event, replace the battery.

- Always charge the battery before using the camera for the first time or when the battery has not been used for a long time.
- Do not use the battery charger D-BC8 to charge batteries other than D-LI8 rechargeable lithium-ion batteries, as the charger may overheat or be damaged as a result.
- If the battery is inserted correctly but the charging indicator blinks, the battery may be faulty. Replace with a new battery.

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• Approximate Operating Time (when the D-LI8 battery is fully charged)

Number of recordable images:	Approx. 180 (at 23°C with the LCD monitor on and the flash used for 50% of shots)
Playback time:	Approx. 130 min.
Movie recording time:	Approx. 60 min.
Sound recording time:	Approx. 140 min.

- The number of recordable images are based on CIPA standard measurement and may vary depending on capture mode and shooting conditions.

Caution

- In general, battery performance temporarily deteriorates as the temperature decreases. When using the camera in a cold environment, keep it warm by putting it in your pocket or inside your coat. Battery performance that has deteriorated due to low temperature will be restored when the battery is returned to room temperature.
- Be sure to take a spare battery with you when traveling abroad or to a cold region, or if you intend to take a lot of pictures.

• Battery Level Indicator

You can check the battery level by the symbol on the LCD monitor.

↓	(lit green)	: Adequate power remains.
↓	(lit green)	: Battery is running low.
↓	(lit yellow)	: Battery is running very low.
↓	(lit red)	: Battery is exhausted.
[Battery depleted]		: The camera will turn off after the message appears.

• Recycling Batteries

This symbol indicates that the battery is recyclable. Cover the terminals with insulating tape and take the battery to a store displaying this symbol.

Li-ion

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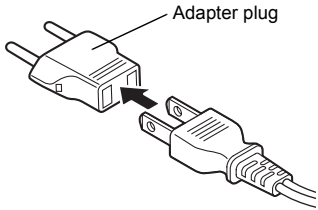
Charging the Battery Abroad

The battery charger supplied with the camera is designed to switch automatically to the voltage (100-240V) and frequency (50Hz, 60Hz) of the electricity supply in the country or region where used.
However, electrical socket shapes differ depending on the country or region. Before traveling abroad, you are advised to check the socket shape in your destination (see “Main Socket Types in the Major Countries and Regions of the World” (p.20)) and take an appropriately shaped off-the-shelf adapter plug with you. (Electrical socket shapes may vary depending on every region in the country. Check the socket shape used in the region.)
The socket shape does not affect the charging method.



Caution

- Use of an off-the-shelf transformer may lead to defective operation.
- Unplug the adapter plug from the power outlet when the battery charger is not in use.

Type	A	B	BF	C	S
Shape					
Adapter plug	—				

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Main Socket Types in the Major Countries and Regions of the World

		A	B	BF	C	S
North America	U.S.A., Canada	✓				
Europe, Former Soviet Union	Iceland, Ireland, Italy, Ukraine, Austria, Netherlands, Kazakhstan, Greece, Sweden, Denmark, Germany, Norway, Hungary, Finland, France, Belarus, Belgium, Rumania, Russia				✓	
	U.K.		✓	✓		
	Spain	✓			✓	
	Switzerland, Poland, Portugal		✓		✓	
Asia	Taiwan, Japan	✓				
	Sri Lanka, Maldives		✓			
	Nepal, Bangladesh, Mongolia				✓	
	Vietnam	✓			✓	
	India, Indonesia, Pakistan, Macau		✓		✓	
	Thailand	✓		✓	✓	
	Korea	✓	✓		✓	
	Philippines	✓			✓	✓
	Singapore, Hong Kong		✓	✓		
	China	✓	✓	✓	✓	✓
	Malaysia		✓	✓	✓	
Oceania	Australia, Tonga, New Zealand, Fiji					✓
	Guam	✓				
	Tahiti				✓	
Central and South America	Colombia, Jamaica, Haiti, Panama, Bahamas, Puerto Rico, Venezuela, Mexico	✓				
	Brazil, Peru	✓			✓	
	Chile		✓		✓	
	Argentina			✓	✓	✓
Middle East	Israel, Iran				✓	
	Kuwait		✓		✓	
	Jordan		✓	✓		
Africa	Canary Islands, Guinea, Mozambique, Morocco				✓	
	Kenya, South Africa		✓		✓	
	Algeria	✓	✓	✓		
	Egypt		✓	✓	✓	
	Zambia, Tanzania		✓	✓		

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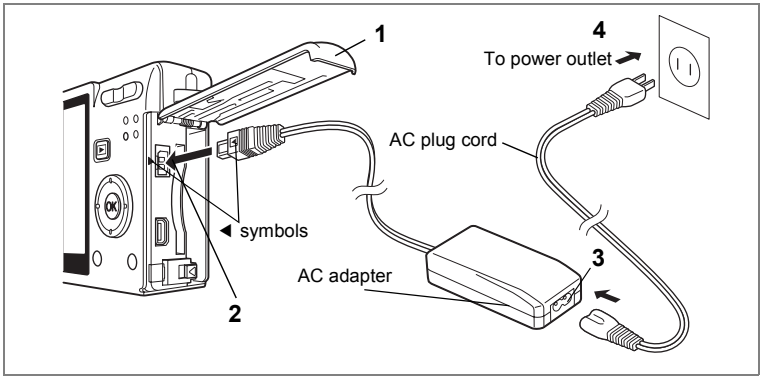

Using the AC Adapter (optional)

If you intend to use the LCD monitor for a long time or connect the camera to a PC, use of the AC adapter kit K-AC8 (optional) is recommended.

1 Make sure that the camera is turned off and open the battery/card cover.

2 Connect the DC terminal on the AC adapter to the DC input terminal on the camera, being sure to match the ◄ symbols.

3 Connect the AC plug cord to the AC adapter.

4 Plug the AC plug cord into the power outlet.

Caution

- Make sure that the camera is turned off when connecting or disconnecting the AC adapter.
- Make sure that the AC plug cord and connecting cable are inserted securely. The data may be lost if the cable becomes disconnected while you are taking pictures.
- Be sure to read the operating manual accompanying the AC adapter before using the adapter.
- Be sure to match the ◄ symbols when connecting the DC terminals. Inserting the plugs with too much force may damage them.

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Precautions When Using the Battery Charger or AC Adapter

To avoid the risk of fire or electric shock when using the battery charger or AC adapter, be sure to read the section on “USING YOUR CAMERA SAFELY” on page 1. Refer to page 181 for the specifications of the battery charger and AC adapter.

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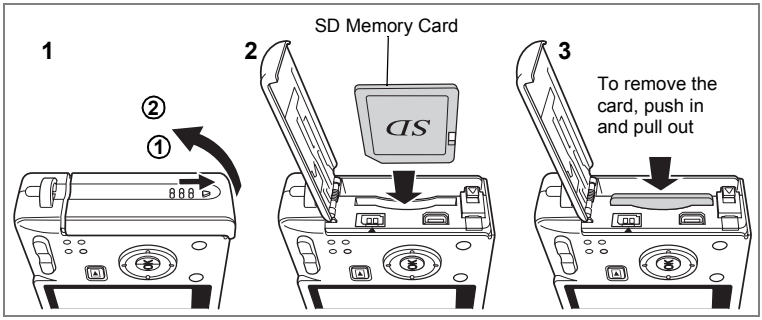
Installing the SD Memory Card



An SD Memory Card can be used with this camera. Captured images are recorded on the SD Memory Card if a card is inserted or in the built-in memory if no card is inserted.

Caution

- Make sure that the camera is turned off before inserting or removing the SD Memory Card.
- Be sure to format unused cards or cards that have been used on another camera. Refer to “Formatting an SD Memory Card or the Built-in Memory” (p.152) for instructions on formatting.

1 Open the battery/card cover.

Slide the battery/card cover in the direction indicated by the arrow ① and flip the cover open ②.

2 Insert an SD Memory Card so the label (the side with the ▲ symbol) is facing toward the LCD monitor and push the card in until it clicks.

3 Close the battery/card cover.

To remove the card, eject the card by pressing it in the direction indicated by the arrow and pull it out.

memo

The number of recordable images varies depending on the capacity of the SD Memory Card or built-in memory and the selected image size and quality. (☞p.25)

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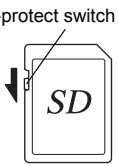
Data Backup

Very occasionally, data stored in the built-in memory becomes unreadable. As a backup measure, we recommend that you download important data to a PC or store the data in a medium other than the built-in memory.

Precautions When Using an SD Memory Card

- Make sure that the camera is turned off before opening the battery/card cover.
- The SD Memory Card is equipped with a write-protect switch. Setting the switch to [LOCK] protects the existing data by prohibiting recording of new data, deletion of existing data or formatting of the card.



- Care should be taken if you remove the SD Memory Card immediately after using the camera, as the card may be hot.
- Do not remove the SD Memory Card or turn the camera off while data is being recorded on the card, images or sound are being played back, or the camera is connected to a PC with the USB cable as this may cause the data to be lost or the card to be damaged.
- Do not bend the SD Memory Card or subject it to violent impact. Keep it away from water and store away from high temperature.
- Be sure to format unused cards or cards that have been used on another camera. Refer to “Formatting an SD Memory Card or the Built-in Memory” (p.152) for instructions on formatting.
- Do not remove the SD Memory Card during formatting as this may damage the card and render it unusable.
- The data on the SD Memory Card may be deleted in the following circumstances. PENTAX does not accept any liability for data that is deleted
  (1) when the SD Memory Card is mishandled by the user.
  (2) when the SD Memory Card is exposed to static electricity or electrical interference.
  (3) when the card has not been used for a long time.
  (4) when the card is ejected, the AC adapter is disconnected or the battery is removed while the data on the card is being recorded or accessed.
- The SD Memory Card has a limited service life. If it is not used for a long time, the data on the card may become unreadable. Be sure to regularly make a backup of important data on a PC.
- Avoid using or storing the card where it may be exposed to static electricity or electrical interference.
- Avoid using or storing the card in direct sunlight or where it may be exposed to rapid changes in temperature or to condensation.
- When using an SD Memory Card with a slow recording speed, recording may stop while you are taking movies even when there is adequate space in the memory, or shooting and playback may take a long time.
- When you purchase the SD Memory Card, access the PENTAX website and confirm beforehand if they have compatibility with your camera. Inquiries on the card compatibility can also be answered by your nearest PENTAX service center.
- If you are going to discard, give away or sell your SD Memory Card, you should ensure that the data on the card is completely deleted or the card itself is destroyed if it contains any personal or sensitive information. Please note that formatting the SD Memory Card will not necessarily delete the data so that it cannot be recovered using off-the-shelf data recovery software. There are off-the-shelf secure data deletion software programs available that will completely delete the data. In any case, the data on your SD Memory Card should be managed at your own risk.

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Image Size and Quality of Still Pictures

Choose the image size and quality best suited to your purpose.
Higher quality levels and numbers of recorded pixels produce clearer images for printing, but the resulting increase in data volume reduces the total number of pictures that can be taken.
When you choose high image quality as well as a large image size, it may take ten seconds or more for the camera to finish recording after shooting.
Choose the appropriate number of recorded pixels and quality level on the [📷 Rec. Mode] menu.

How to Set the Menus ☞p.42

Selecting the Recorded Pixels of Still Pictures ☞p.80

Selecting the Quality Level of Still Pictures ☞p.82

● Appropriate Sizes According to Use

7M (3072×2304)	Clear, Fine ↑	Printing images with high-resolution settings in your printer, Printing at A4 size or larger, Editing and processing images
5M (2592×1944)		
4M (2304×1728)		
3M (2048×1536)		
2M (1600×1200)		
1024 (1024×768)		Printing at postcard size
640 (640×480)		For use as images on websites, For attaching images to e-mail

The default setting is 7M (3072×2304).

● Appropriate Quality According to Use

★★★	Best	Lowest compression ratio. Suitable for large A4-size photo prints.
★★	Better	Standard compression ratio. Suitable for photo prints or viewing images on a computer screen.
★	Good	Highest compression ratio. Suitable for attaching to e-mails or creating websites.

The default setting is ★★.

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● **Approximate Number of Recordable Images by Size and Quality**

Quality Level / Recorded Pixels	Best ★★★	Better ★★	Good ★	Sound
7M (3072×2304)	104	151	210	4 hr. 19 min. 59 sec.
5M (2592×1944)	147	213	296	
4M (2304×1728)	187	270	375	
3M (2048×1536)	223	323	448	
2M (1600×1200)	313	453	628	
1024 (1024×768)	571	826	1144	
640 (640×480)	1048	1515	2098	

- The above table indicates the approximate number of images and recording time when using a 256 MB SD Memory Card.
- The above table is based on standard shooting conditions specified by PENTAX and may vary depending on the subject, shooting conditions, capture mode, SD Memory Card, etc.

Size and Quality of Movies

Choose the size and quality best suited to your purpose.
The larger size and the higher quality level ★ are chosen, the clearer moving images are produced, but the file size is increased.
Choose the appropriate size and quality on the [📷 Rec. Mode] menu.

Selecting the Recorded Pixels of Movies ☞p.92

Selecting the Quality Level of Movies ☞p.93

● **Appropriate Sizes (Recorded Pixels) According to Use**

640 (640×480)	Viewing high-quality movies at VGA size. The recordable time is shorter.
320 (320×240)	Smaller data volume allows a longer time recording.

The default setting is 640 (640×480).

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● Approximate Recordable Time by Size (Recorded Pixels) and Quality

Quality Level / Recorded Pixels	★★★ S.Fine	★★ Fine	★ Economy
640 (640×480)	11 min. 35 sec.	14 min. 30 sec.	17 min. 25 sec.
320 (320×240)	44 min. 47 sec.	55 min. 39 sec.	64 min. 10 sec.

The default setting is ★★★.

- The above table indicates the approximate recording times when using a 256 MB SD Memory Card.
- The above table is based on standard shooting conditions specified by PENTAX and may vary depending on the subject, shooting conditions, capture mode, SD Memory Card, etc.

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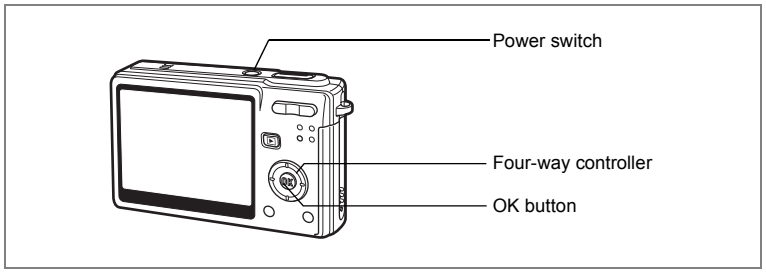
Initial Settings (Setting the Display Language and the Date and Time)



If the Initial Setting screen or Date Adjust screen appears when you turn the camera on, follow the procedure below to set the display language and/or current date and time.

If the Initial Setting screen appears:
☞p.28 - 29 “Setting the Display Language”, “Setting the Date and Time”
If the Date Adjust screen appears:
☞p.29 - 30 “Setting the Date and Time”

If you want to change the initial settings, refer to “Changing the Date and Time” (p.156) and “Changing the Display Language” (p.160).

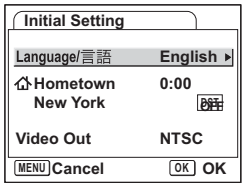
Setting the Display Language

You can choose the language in which the menus, error messages, etc. are displayed from the following: English, French, German, Spanish, Portuguese, Italian, Swedish, Dutch, Russian, Thai, Korean, Chinese (traditional and simplified) and Japanese.

1 Press the four-way controller (▶).
The Language/言語 screen appears.

2 Use the four-way controller (▲▼◀▶) to choose a language.
The default setting is English.

3 Press the OK button.



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4 **Press the four-way controller (▼).**

The frame moves to [⌂].

5 **Use the four-way controller (◀▶) to choose the desired city (Hometown).**

6 **Press the four-way controller (▼).**

The frame moves to [DST] (Daylight Saving Time).

7 **Use the four-way controller (◀▶) to select ☑ (On) or □ (Off).**

8 **Press the OK button.**

The Date Adjust screen appears.

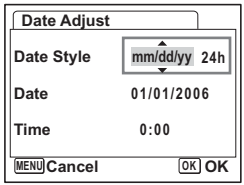
Setting the Date and Time

Set the current date and time and the display style.

1 **Press the four-way controller (▶).**

The frame moves to [mm/dd/yy].

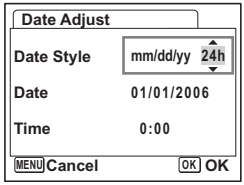
2 **Use the four-way controller (▲▼) to choose the date display style.**



3 **Press the four-way controller (▶).**

The frame moves to [24h].

4 **Use the four-way controller (▲▼) to select [24h] (24-hour display) or [12h] (12-hour display).**

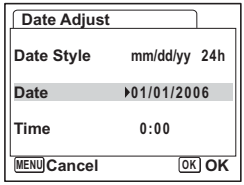


5 **Press the four-way controller (▶).**

The frame returns to [Date Style].

6 **Press the four-way controller (▼).**

The frame moves to [Date].



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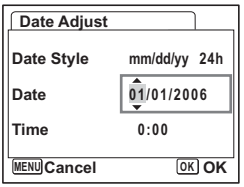
7 **Press the four-way controller (▶).**

The frame moves to the month.

8 **Use the four-way controller (▲▼) to change the month.**



Change the day and year in the same manner.

Next, change the time.

If you selected [12h] in Step 4, the setting switches between am and pm corresponding to the time.

memo

- When you finish the settings and press the OK button, the camera clock is reset to 00 seconds.
- To set the exact time, press the OK button when the time signal (on the TV, radio, etc.) reaches 00 seconds.

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Caution

- When the Initial Settings screen is displayed, you can cancel the setting operation and switch to Capture mode by pressing the MENU button. In this case, the Initial Settings or Date Adjust screen will appear next time you turn the camera on.
- You can change the settings on the menu. Refer to the pages below for details.
  Language: “Changing the Display Language” (p.160)
  City, Daylight saving time: “Setting the World Time” (p.158)
  Date and Time: “Changing the Date and Time” (p.156)
- The video output format is automatically set in conjunction with the language you have chosen as listed below. If the output format is different from the one used in your country or region, change the format following the steps in “Changing the Video Output Format” (p.162).

Language	Video Output Format
English (English)	NTSC
French (Français)	PAL
German (Deutsch)	PAL
Spanish (Español)	PAL
Portuguese (Português)	PAL
Italian (Italiano)	PAL
Sweden (Svenska)	PAL
Netherlands (Nederlands)	PAL
Russian (Русский)	PAL
Thai(ไทย)	PAL
Korean (한국어)	NTSC
Chinese (traditional) (中文繁體)	PAL
Chinese (simplified) (中文简体)	PAL
Japanese	NTSC

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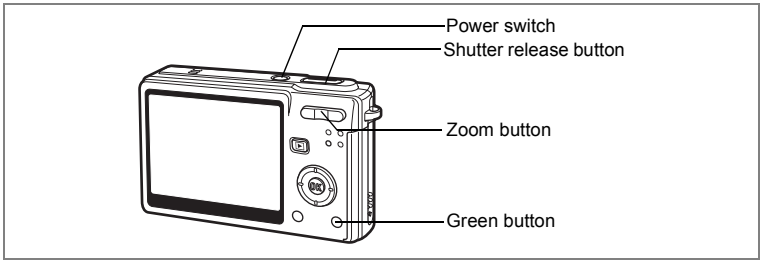
Taking Still Pictures



The simplest procedure for taking still pictures is described below. The flash fires automatically depending on the light conditions.

1 Press the power switch.

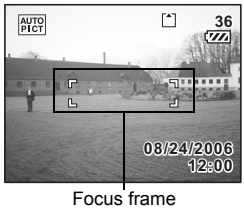
The camera turns on.

2 Confirm the subject and shooting information on the LCD monitor.

The focus frame in the middle of the LCD monitor indicates the zone of automatic focusing. You can change the size of the subject by pressing the zoom button.

: makes the subject bigger.

: makes the subject smaller.



Focus frame

3 Press the shutter release button halfway.

The focus frame on the LCD monitor will light green when the camera is in focus.

4 Press the shutter release button fully.

The image appears on the LCD monitor for 0.5 second (Instant Review) and is recorded on the SD Memory Card or in the built-in memory.

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Using the Shutter Release Button

The shutter release button works in a two-step action as follows.

Press halfway

The focus and exposure are locked when the shutter release button is pressed lightly (halfway). The shutter speed and aperture settings only appear on the LCD monitor when the shutter release button is pressed halfway. The focus frame on the LCD monitor will light green when the subject is in focus while the shutter release button is pressed halfway. The frame does not appear if the subject is out of focus.

Press down fully

Press the shutter release button all the way down (fully) to take a picture.

[Poor focusing conditions]

The camera may not be able to focus under the following conditions. In this case, lock the focus on an object the same distance away as the subject (by pressing the shutter release button halfway), then aim the camera at your subject and press the shutter release button fully.

- Objects that lack contrast such as a blue sky or white wall
- Dark places or objects, or conditions that prevent light being reflected back
- Finely patterned object
- Fast moving objects
- When there is an object in the foreground and an object in the background in the same picture
- Strongly reflected light or strong backlighting (bright background)

Instant Review

The Instant Review default setting is 0.5 second. During this time, you can delete the image by pressing the Green button, selecting [Delete] when the [Delete] menu appears and pressing the OK button. (☞p.116)

Setting the Instant Review Time ☞p.95

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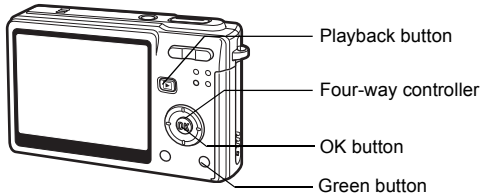
Playing Back Still Pictures



Playing Back an Image

You can display the still picture you have just taken.

1 **Press the ▶ Playback button after taking a picture.**

The image appears on the LCD monitor.

Zoom Display ☞p.109

Playing Back the Previous or Next Image

Still pictures can be played back one at a time, proceeding either forward or backward.

1 **Press the ▶ Playback button after taking a picture.**

The image appears on the LCD monitor.

2 **Press the four-way controller (◀▶).**

◀ displays the previous image.

▶ displays the next image.

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Deleting the Displayed Image

You can delete the image displayed on the LCD monitor by pressing the Green button, using the four-way controller (▲) to select [Delete] and pressing the OK button.
Press the ▶ Playback button again or press the shutter release button halfway to return to the Capture mode.

- The last picture taken appears on the LCD monitor when you switch to the Playback mode.
- You can enlarge the image displayed on the LCD monitor by pressing the zoom button.
- If there are no images stored, the [No image/sound] message appears.

Zoom Display ☞p.109

Deleting a Single Image, Movie or Sound ☞p.116

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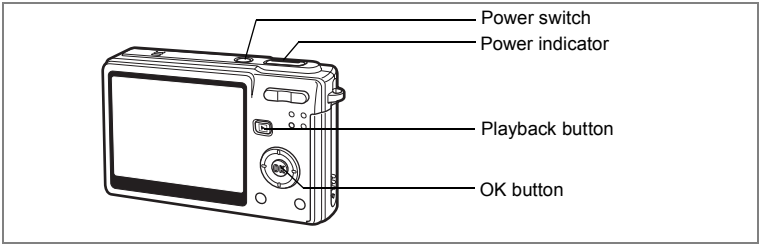
Turning the Camera On and Off



1 Press the power switch.

The power indicator is illuminated by a green light. The lens extends and the camera turns on in the Capture mode.
The camera is ready to take pictures by pressing the shutter release button.

- **Press the ▶ Playback button to switch to the Playback mode and view pictures while the lens is extended.**
- **Hold down the ▶ Playback button for two seconds to activate the Playback mode with the lens retracted.**
- **Hold down the ▶ Playback button for more than four seconds to display the contents of the pictures stored in the built-in memory with the SD Memory Card inserted.**

2 Press the power switch again.

The camera turns off.

Switching between Capture Mode and Playback Mode ☞p.50

Using the My Album Function

This camera has a built-in memory, but the built-in memory becomes hidden when an SD Memory Card is inserted. You can activate the built-in memory using the following procedure. You can save your favorite pictures, movies, and sounds in the built-in memory and use the built-in memory as a private album.

1 Confirm the SD Memory Card is set in the camera.

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2 Hold down the ▶ Playback button for more than four seconds in Capture Mode.

The lens retracts two seconds after you start holding down the ▶ Playback button, and the contents of the built-in memory are displayed two seconds later.

memo

- When you turn the power off and on or switch from Playback Mode to Capture Mode, the My Album function is canceled and the SD Memory Card becomes activated.
- While using the My Album function, you cannot access the SD Memory Card, so you cannot copy files between the built-in memory and the SD Memory Card. Cancel the My Album function to copy the files.
- While using the My Album function, you cannot perform formatting.

To Copy Files from the SD Memory Card to the Built-in Memory ☞ p.150

Turning the Camera On in Playback Mode

1 Press the power switch while pressing the ▶ Playback button.

The power indicator lights green and the camera turns on in the Playback mode with the lens retracted.

- **Press the ▶ Playback button to extend the lens and switch to the Capture mode.**
- **Hold down the ▶ Playback button for more than two seconds in the Capture mode or press the ▶ Playback button in the Voice Recording mode to switch to the Playback mode with the lens retracted.**

memo

The power may be turned off when the power switch is held for a while.

Playing Back Still Pictures ☞p.34

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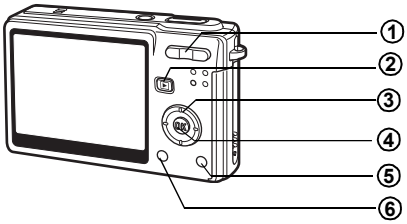

Capture Mode

① **Zoom button**
Changes the size of the subject. (☞p.32)

② **Playback button**
Switches to the Playback mode. When pressed again, returns to Capture mode. (☞p.34)

③ **Four-way controller (▲▼◀▶)**
(▲) Changes the focus mode. (☞p.75)
(▲) Changes the drive mode. (☞p.67 to p.72)
(▼) Displays the Capture Mode Palette. (☞p.47)
(◀) Changes the flash mode. (☞p.78)

④ **OK/Display button**
Changes the information displayed on the LCD monitor. (☞p.50)

⑤ **Green/ button**
Goes to Green Mode. (☞p.53)
You can assign a different function to the Green button by selecting [Green Button] on the [Rec. Mode] menu. (☞p.96)

⑥ **MENU button**
Displays the [Rec. Mode] menu. (☞p.42)

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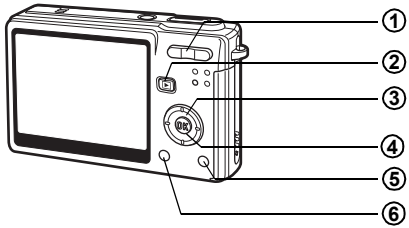

Playback Mode

① ▲▲▲/ ▲ Zoom button

Press ▲▲▲/▪ in single-image display to switch to nine-image display. Press ▲/🔍 to return to the previous display. (☞p.113)

Press ▲/🔍 to enlarge the image in single-image display. Press ▲▲▲/▪ to return to the previous display. (☞p.109)

② ▶ Playback button

Switches to Capture mode. When switched to the Playback mode by pressing the ▶ Playback button in Voice Recording mode, pressing the ▶ Playback button again switches to the Voice Recording mode.

③ Four-way controller (▲▼◀▶)

For playing back still images

(◀▶) : Displays the previous or next image in single-image display. (☞p.34)

(▼) : Displays the Playback Mode Palette. (☞p.49)

(▲▼◀▶) : Moves the display area of the enlarged image. (☞p.109) Selects an image in nine-image display. (☞p.113)

For playing back movies

(▲) : Plays back and pauses a movie. (☞p.111)

(◀▶) : Frame forwards, frame reverses, fast forwards and reverses a movie during playback. (☞p.111)

(▼) : Stops a movie during playback. (☞p.111)

For playing back voice recording files

(▲) : Starts playback. When pressed again, pauses playback.

(◀▶) : Selects a recorded file before playback. Performs the following operations during playback.

If there are no recorded indexes:

When (◀) is pressed during playback, rewinds five seconds.

When (▶) is pressed during playback, advances five seconds.

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If there are recorded indexes:

When (◄) is pressed during playback, plays back starting from the previous index.

When (►) is pressed during playback, plays back starting from the next index.

④ **OK/Display button**

Changes the information displayed on the LCD monitor. (☞p.112)

Returns to a single-image display in nine-image display. (☞p.113)

⑤ **Green/🗑 button**

Deletes the image displayed on the LCD monitor. (☞p.116)

⑥ **MENU button**

Displays the [🔧 Set-up] menu. (☞p.42)

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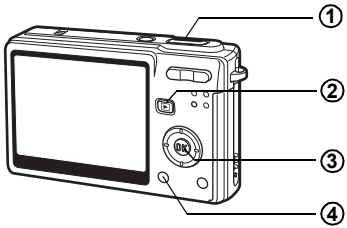

Voice Recording Mode

① **Shutter release button**
When pressed, starts recording, and when pressed again, stops recording.
When pressed for more than one second, recording continues for as long as the button is held down and stops when the button is released.

② **▶ Playback button**
Switches to Playback mode. (☞p.37) When pressed again, returns to Voice Recording mode.

③ **OK/Display button**
Turns the LCD monitor on and off.

④ **MENU button**
When pressed during recording, an index can be added.
When pressed during standby, displays the "📷 Rec. Mode" menu; when pressed before playing back recorded sound, displays the "🔧 Set-up" menu. (☞p.42)

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Setting the Menus

When you press the MENU button, the menus appear on the LCD monitor. You can set functions, save the settings and change the camera settings on these menus.

How to Set the Menus

When you are making settings from a menu, a guide to operation appears on the LCD monitor.

1 Press the MENU button.

The [📷 Rec. Mode] or [🔧 Set-up] menu appears.
The selected area is highlighted.

2 Press the four-way controller (◀▶).

Changes the menu screen.

3 Use the four-way controller (▲▼) to choose an item.

Moves the highlight up or down.

4 Press the four-way controller (▶).

A pull-down menu or setting screen appears.
The pull-down menu displays only those items that can be selected with the current camera settings.

5 Use the four-way controller (▲▼) to change the setting.

The setting changes each time the four-way controller (▲▼) is pressed.

To Save the Setting and Start Taking Pictures

6 Press the shutter release button halfway.

The setting is saved and the camera is ready to take pictures.
When the shutter release button is pressed fully, the picture is taken.

To Save the Setting and Begin Playback of Images

6 Press the ▶ Playback button.

The setting is saved and the camera returns to playback status.

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To Save the Setting and Continue with Menu Operations

6 Press the OK button or the four-way controller (◄).

The setting is saved and the screen returns to Step 3.

To Cancel the Changes and Continue with Menu Operations

6 Press the MENU button.

The changes are canceled and the screen returns to Step 3.

The MENU button functions differ depending on the screen. Refer to the guide indications.

MENU Exit : Saves the current setting, exits the operation and returns to the original screen (Capture or Playback mode).

MENU ⮌ : Saves the current setting and returns to Step 1.

MENU Cancel: Cancels the current selection, exits the operation and returns to Step 3.

Caution

- If you press the MENU button with the pull-down menu displayed, the setting is canceled.
- If you press the OK button, the MENU button or the four-way controller (◄) with the pull-down menu displayed, the menu returns to the screen used for selecting an item.
- The menu is exited automatically one minute after the last operation.

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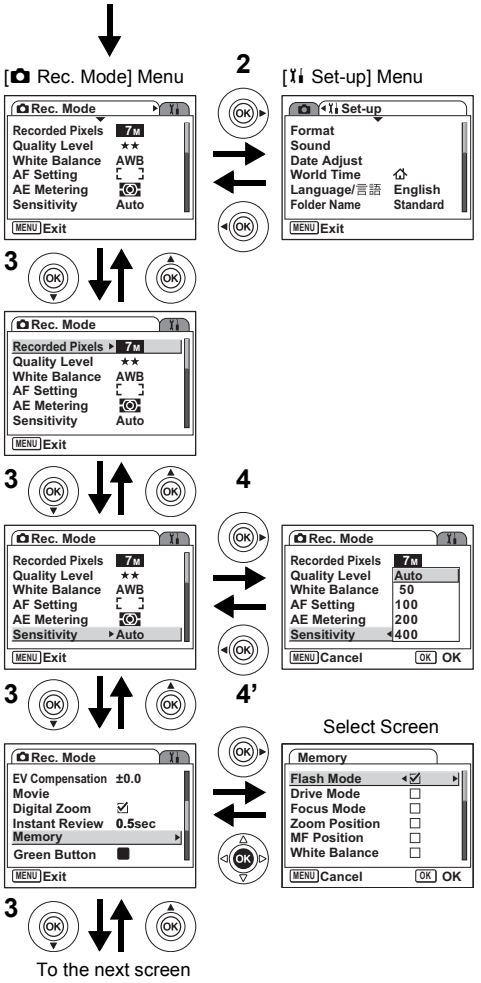
Example of Menu Operation

1 MENU button



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Menu List

[Rec. Mode] Menu

Item		Description	Page
Recorded Pixels		For selecting the number of pixels	p.80
Quality Level		For selecting the image compression ratio	p.82
White Balance		For adjusting the color balance according to lighting	p.84
AF Setting	Focusing Area	For changing the area of the autofocus	p.86
	Focus Limiter	For limiting the focusing range of the lens in accordance with the shooting conditions	p.87
	Aux. AF light	For focusing with auxiliary AF light when the subject is dim and the autofocus does not function properly	p.88
AE Metering		For setting the metering method to determine the exposure	p.89
Sensitivity		For setting the sensitivity	p.90
EV Compensation		For adjusting the exposure between –2.0 and +2.0	p.91
Movie	Recorded Pixels	For selecting the recorded pixels of the movie	p.92
	Quality Level	For selecting the quality level of the movie	p.93
	Movie anti-shake	For compensating for camera shake of the movie automatically	p.94
Digital Zoom		For taking digital zoom pictures	p.73
Instant Review		For setting the Instant Review time	p.95
Memory		For saving the shooting function settings when the camera is turned off	p.102
Green Button		For registering a function on the Green button	p.96
Sharpness		For setting the sharpness	p.99
Saturation		For setting the saturation	p.100
Contrast		For setting the contrast	p.101

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[Set-up] Menu

Item	Description	Page
Format	For formatting the SD Memory Card or built-in memory	p.152
Sound	For adjusting the operation volume and the playback volume and setting the type and volume of start-up sound, shutter sound, key operation sound, self-timer sound	p.153
Date Adjust	For adjusting the date, time, and display style	p.156
World Time	For setting the world time	p.158
Language/言語	For changing the language in which menus and messages appear	p.160
Folder Name	For choosing how names are assigned to folders for storing images and sound files	p.161
USB Connection	For changing the USB connection mode	p.162
Video Out	For setting the video output format	p.162
Brightness Level	For changing the brightness of the LCD monitor	p.163
Power Saving	For setting the Power Saving function	p.163
Quick Zoom	For displaying the image at maximum magnification by pressing the zoom button once	p.110
Auto Power Off	For turning off the power automatically	p.164
Guide Display	For showing the mode selected on the screen in Capture mode and assignment of the Green button	p.164
Reset	For returning the camera settings to defaults	p.165

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Operating the Mode Palette

Once you press the four-way controller (▼), the Mode Palette appears on the LCD monitor. You can edit an image or change the settings of the camera.

How to operate the Mode Palette

The guide display is indicated while using the Mode Palette.

1 Press the four-way controller (▼).

In Capture mode, the Capture Mode Palette appears and in Playback mode, the Playback Mode Palette appears.

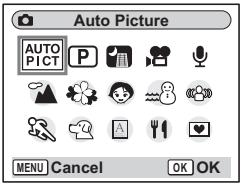
2 Use the four-way controller (▲▼◀▶) to choose an item.

3 Press the OK button.

The screen for each mode appears.

Mode Palette List

Capture Mode Palette



Icon	Item	Description	Page
AUTO PICT	Auto Picture mode	Selects the best capture mode.	p.55
P	Program mode	Lets you take clear pictures at the appropriate shutter speed and exposure.	p.56
	Night Scene mode	Lets you take dark scenes such as night views.	p.61
	Movie mode	Lets you take movies and sounds.	p.62
	Voice Recording mode	Records audio, such as voices.	p.104

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Icon	Item		Description	Page
	Picture mode	Landscape mode	Lets you capture the natural colors of landscape views.	p.57
		Flower mode	Lets you take brightly colored flower pictures.	
		Portrait mode	Lets you take portraits with spatial effect, by emphasizing the person.	
		Kids mode	Lets you take clear pictures of children.	
		Surf & Snow mode	Lets you take photos against dazzling backgrounds like beaches or snow-covered mountains.	
		Sport mode	Lets you take clear pictures of moving subjects with a high shutter speed to prevent motion blur.	
		Pet mode	Lets you take clear pictures of pets to fit the hair color.	
		Text mode	Lets you take clear pictures of text or writing. Also lets you turn colored text black/white or reverse color.	
		Food mode	Lets you take appetizing pictures of prepared food.	
	Blur reduction mode		Lets you take pictures with reduced camera shake and blurring of the subject.	p.64
	Frame Composite mode		Lets you take pictures with a decorative frame.	p.65

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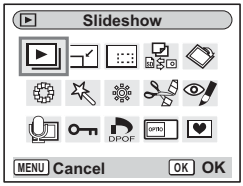
Playback Mode Palette



Icon	Item	Description	Page
	Slideshow	For playing recorded images successively	p.114
	Resize	For changing the size and quality level of images	p.132
	Cropping	For cropping images and saving them as separate images	p.134
	Image/ Sound Copy	For copying files from the built-in memory to the SD Memory Card and vice versa	p.149
	Image Rotation	For displaying rotated still pictures	p.135
	Color Filter	For processing images using the color filter	p.136
	Digital Filter	For applying special effects such as the illustration effect or the slim effect to still pictures according to your taste	p.138
	Brightness Filter	For adjusting the brightness of images using a filter	p.140
	Movie Edit	For editing movies	p.142
	Red-eye Compensa-tion	For retouching red-eyes, a phenomenon that can happen when shooting with a flash	p.145
	Voice Memo	For adding a voice memo to an image	p.107
	Protect	For protecting images and sounds to avoid accidental erasure	p.121
	DPOF	For printing images from a DPOF compatible printer or at a printing service	p.125
	Start-up Screen	For setting the Start-up Screen	p.151
	Frame Composite	For adding a decorative frame to a still picture	p.147

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Taking Pictures

Changing the Mode

Capture mode is for taking pictures and Playback mode is for playing back or deleting images.

Switching between Capture Mode and Playback Mode

- To change from Capture mode to Playback mode, press the ▶ Playback button.
- To change from Playback mode to Capture mode, press the ▶ Playback button or press the shutter release button halfway.

Selecting the Capture Mode

Select the Capture Mode from the Mode Palette. (☞p.47)

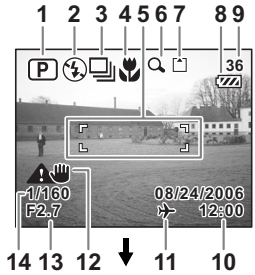
Displaying Shooting Information in Capture Mode

You can display shooting information on the LCD monitor when taking pictures. The display mode can be changed by pressing the OK/Display button.

Normal Display

Shooting information is displayed when the power is turned on.

1 Capture mode
2 Flash mode
3 Drive mode
4 Focus mode
5 Focus frame
6 Digital zoom
7 Card/Built-in memory
8 Battery indicator
9 Remaining number of recordable images
10 Date and time
11 World Time setting
12 Anti-shake warning
13 Aperture
14 Shutter speed



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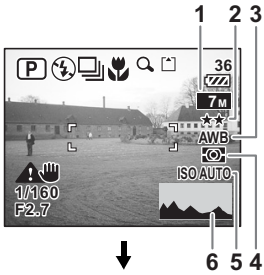
Histogram Display

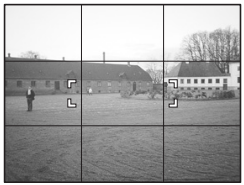
The brightness distribution of the image is displayed. The horizontal axis shows the brightness (darkest at the left end and brightest at the right end) and the vertical axis shows the number of pixels.

1 Recorded Pixels **2** Quality Level
3 White Balance **4** AE Metering
5 Sensitivity **6** Histogram



Guide Display

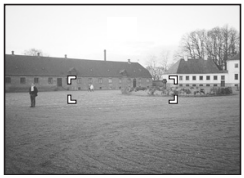
The grids divided into three parts are displayed. These grids will help you to improve composition.



No icons

No shooting information is displayed.

- The focus frame appears in Autofocus mode.
- If any of the modes are changed, the mode you have changed appears for a few seconds.



Backlight Off

The LCD monitor is turned off.

Saving the Display Mode ☞p.102

memo

- Under shooting conditions where camera shake is likely to occur, (Anti-shake warning) will be displayed. Take pictures with the camera secured on a tripod or other stable surface.
- All the camera buttons function as normal even when the backlight is off. Press the shutter release button to take pictures as normal.

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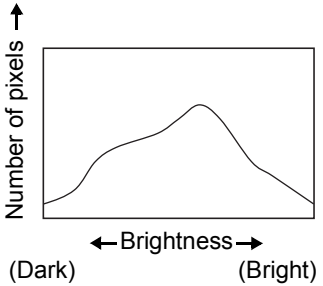
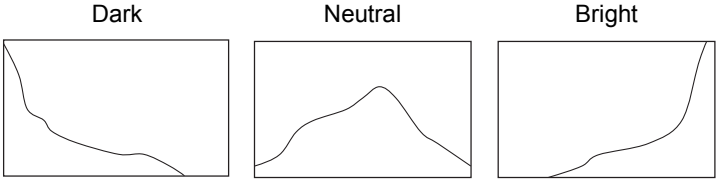
Using Histogram

A histogram is a graph showing the brightness of an image on the horizontal axis and the number of pixels on the vertical axis (distribution chart of the brightness). The histogram will help you detect the brightness of the image you have taken. For instance, the graph peak tends to appear on the left side for a darker image, and the graph peak tends to appear on the right side for a brighter image. In general, when the exposure meter setting for your image is well-balanced, the graph peaks tend to appear in the middle. On the contrary, when the exposure meter gets imbalanced tending dark and bright without showing a neutral brightness, the peaks appear not in the middle but on both sides.





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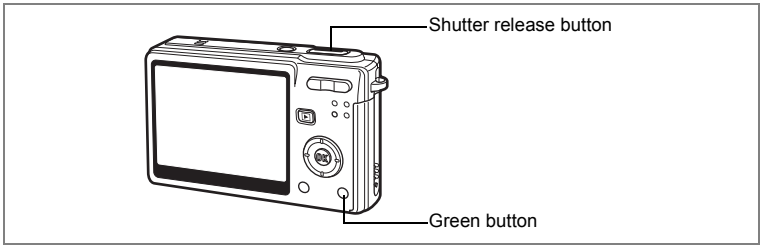
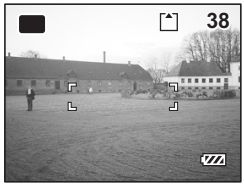


Taking Pictures in the Basic Mode (Green Mode)

In the Green Mode, you can enjoy easy picture-taking using Green mode settings*, regardless of the settings in the [📷 Rec. Mode] menu.

1 Press the Green button in Capture mode.



The camera switches to the Green Mode. Press the Green button again to return to the status before the Green Mode was selected.

2 Press the shutter release button halfway.

The focus frame on the LCD monitor turns green if the subject is in focus.

3 Press the shutter release button fully.

The picture is taken.

memo

- In Green Mode, you cannot change the information displayed on the LCD monitor by pressing the **OK**/**DISPLAY** button.
- You cannot use the [📷 Rec. Mode] menu or Capture Mode Palette in Green Mode. If you try to display the [📷 Rec. Mode] menu or Capture Mode Palette, the 🔒 (key lock icon) and "Green mode must be canceled to use this function." message appears.
- If you switched to ▶ mode from Green Mode, you cannot display the [🔧 Set-up] menu by pressing the **MENU** button. If you try to display the [🔧 Set-up] menu, the 🔒 (key lock icon) and "Green mode must be canceled to use this function." message appears.
- When the camera is turned off in the Green Mode, it turns on in the Green Mode next time the power switch is pressed.

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* The Green Mode settings are as shown below.

Flash Mode	Default setting is $\$_A$ (Auto). $\$$ (Flash Off) can also be selected
Drive Mode	Default setting is □ (Standard). $\$$ (Self-timer 10 seconds) can also be selected
Focus Mode	Default setting is **AF** (Standard). $\$$ (Macro Mode) can also be selected
Recorded Pixels	7M
Quality Level	★★ (Better)
White Balance	**AWB** (Auto)
Focusing Area	[ ] (Multiple)
Focus Limiter	☑ (on)
AUX. AF Light	☑ (on)
AE Metering	(Multi-segment)
Sensitivity	Auto
EV Compensation	±0.0
Digital Zoom	☑ (On)
Instant Review	0.5 sec
Sharpness	− ▪ + (Standard)
Saturation	− ▪ + (Standard)
Contrast	− ▪ + (Standard)

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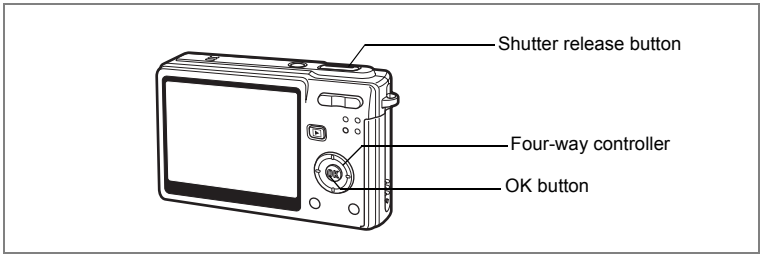


Taking Pictures Automatically (Auto Picture Mode)

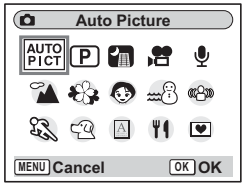
In AUTO PICT (Auto Picture mode), when you press the shutter release button, the camera selects the most appropriate mode from four capture modes: ☺ (Normal mode), (Night Scene mode), (Landscape mode), and (Portrait mode).

1 **Press the four-way controller (▼) in Capture mode.**

The Mode Palette appears.

2 **Use the four-way controller (▲▼◄►) to select AUTO PICT (Auto Picture mode).**

3 **Press the OK button.**



4 **Press the shutter release button halfway.**

The focus frame on the LCD monitor will light green when the camera is in focus, and the selected mode icon will appear on the top left of the LCD monitor.

5 **Press the shutter release button fully.**

The picture is taken.

Taking Still Pictures ☞p.32

memo In Auto Picture mode, EV Compensation (☞p.91), AE Metering (☞p.89), White Balance (☞p.84), Saturation (☞p.100), Contrast (☞p.101) and Sharpness (☞p.99) are locked.

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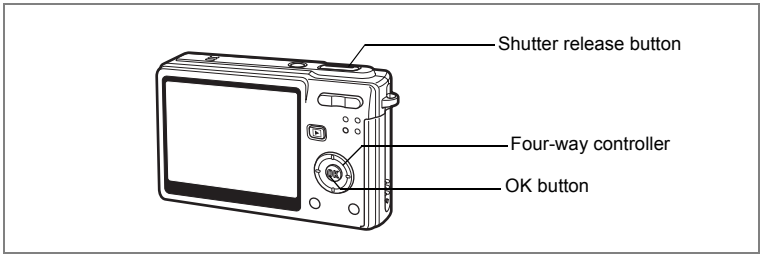


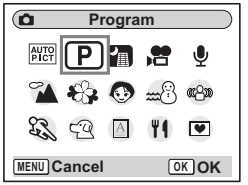
Setting the Functions (Program Mode)

In P (Program mode), the camera automatically sets the shutter speed and aperture for taking still pictures. However, you can select other functions such as the Flash Mode or Continuous Shooting mode.

1 Press the four-way controller (▼) in Capture mode.

The Mode Palette appears.

2 Use the four-way controller (▲▼◄►) to select P (Program mode).



3 Press the OK button.

4 Set the functions you want to use.

Refer to “Setting the Shooting Functions” (p.75 - 101) for details of how to set the functions.

5 Press the shutter release button halfway.

The focus frame on the LCD monitor will light green when the camera is in focus.

6 Press the shutter release button fully.

The picture is taken.

Taking Still Pictures ☞p.32

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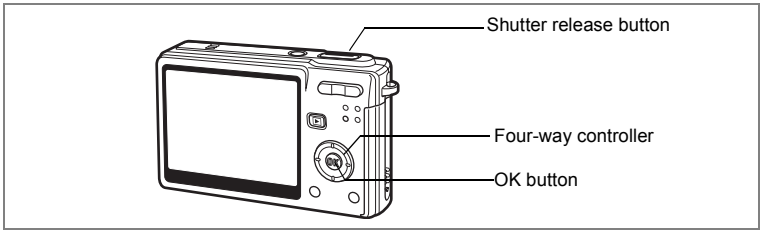


Selecting the Picture Mode According to the Shooting Scene (Picture Mode)

You can select the Picture mode according to the shooting scene. There are 9 available modes in Picture mode.

	Landscape	Lets you capture the natural colors of landscape views.
	Flower	Lets you take brightly colored flower pictures.
	Portrait	Lets you take portraits with spatial effect, by emphasizing the person.
	Kids	Lets you take clear pictures of children.
	Surf & Snow	Lets you take photos against dazzling backgrounds like beaches or snow-covered mountains.
	Sport	Lets you take clear pictures of moving subjects with a high shutter speed.
	Pet	Lets you take clear pictures of pets to fit the hair color.
	Text	Lets you take clear pictures of text or writing. Also lets you turn colored text black/white or reverse color.
	Food	Lets you take appetizing pictures of prepared food.

1 **Press the four-way controller (▼) in Capture mode.**

The Mode Palette appears.

2 **Use the four-way controller (▲▼◀▶) to choose the desired mode.**

For example, select (Landscape mode).

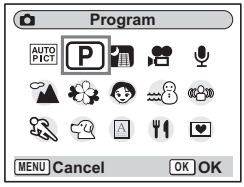
3 **Press the OK button.**

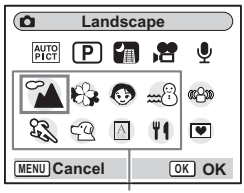
4 **Press the shutter release button halfway.**

The focus frame on the LCD monitor will light green when the camera is in focus.

5 **Press the shutter release button fully.**

The picture is taken.





Picture mode

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- When the (Kids), (Sport) or (Pet) mode is selected, the automatic tracking AF function operates and the camera continues to adjust the focus on the moving subject even after the shutter release button is pressed halfway.
- In Picture mode, EV Compensation, AE Metering, Saturation, Contrast, Sharpness and White Balance are automatically set to their default settings. You cannot change the settings.

Switches between Portrait Mode and Kids Mode

When Portrait Mode is selected, you can switch between Portrait Mode and Kids Mode.
"Kids Mode" is good for taking pictures of fast moving children. The pictures show healthy children with bright skin tone.
When "Kids Mode" is selected, the "Kids Mode" icon is displayed in the Capture Mode Palette until the "Portrait Mode" is selected again.

1 Press the four-way controller (▼) in Capture mode.

The mode palette is displayed.

2 Select with the four-way controller (▲▼◀▶).

3 Press the OK button.

The screen for choosing a mode for taking portraits appears.

4 Select Kids Mode or Portrait Mode with the four-way controller (▲▼).

: Kids mode
: Portrait mode

5 Press the OK button.

The camera goes to the selected capture mode and pictures can be taken.

6 Press the shutter release button halfway.

The focus frame on the LCD monitor turns green if the subject is in focus.

7 Press the shutter release button fully.

The picture is taken.

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- Face recognition AF and face recognition AE work in Portrait mode and Kids mode. Just by pointing the camera directly at a person from the front allows the camera to recognize the position of their face and the focus (face recognition AF) and the exposure (face recognition AE) are adjusted for shooting.
- Only the mode icon and the focus frame are displayed in Portrait mode and Kids mode, other shooting information is not displayed. Also, the information display cannot be switched by pressing the OK/Display button.
- Face recognition AF and face recognition AE may not work if the subject is wearing sunglasses or is not facing the camera directly.

Taking Pictures of Your Pet (Pet Mode)

In Pet mode, you can take pictures that show natural hair color of your pet. Choose the appropriate icon depending on what color your pet is (closer to black or white or in between).

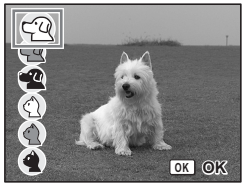
1 Press the four-way controller (▼) in Capture mode.

The Mode Palette appears.

2 Use the four-way controller (▲▼◀▶) to select .

3 Press the OK button.

The screen for selecting the pet mode appears.



4 Use the four-way controller (▲▼) to select , , , , or .

There are two icons of a cat and a dog. (Choosing either the cat or dog icon does not affect the resulting picture. Choose whichever you prefer.)

5 Press the OK button.

The Pet mode is selected and the camera is ready to take the picture.

6 Press the shutter release button halfway.

The focus frame turns green when the subject is in focus.

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7 Press the shutter release button fully.

The picture is taken.

When the (Pet) mode is selected, the automatic tracking AF function operates and the camera continues to adjust the focus on the moving subject even after the shutter release button is pressed halfway.

Taking Pictures of Text (Text Mode)

This mode allows you to take clear pictures of written text. This is convenient for capturing a digital copy of an important document or enhancing legibility of small print.

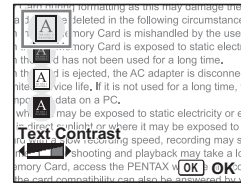
1 Press the four-way controller (▼) in Capture mode.

The Mode Palette appears.

2 Use the four-way controller (▲▼◀▶) to select .

3 Press the OK button.

The screen for selecting the Text mode appears.



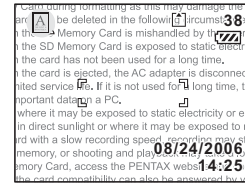
4 Use the four-way controller (▲▼) to select , , , .

	Color	Maintains original color of the text.
	Neg. Color	Reverses color of the text.
	B&W	Turns colored text black/white.
	Neg. B&W	Reverses black/white text.

Use the four-way controller (◀▶) to adjust the contrast.

5 Press the OK button.

The text mode is selected and the camera is ready to take the picture.



6 Press the shutter release button halfway.

The focus frame turns green when the subject is in focus.

7 Press the shutter release button fully.

The picture is taken.

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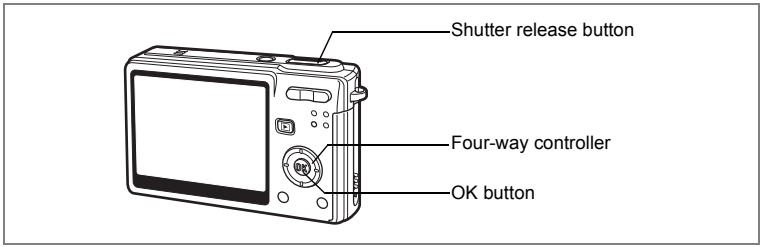


Taking Pictures of Dark Scenes (Night Scene Mode)

You can take pictures of dark scenes, such as nightscapes, with the appropriate settings.

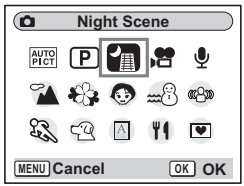
1 Press the four-way controller (▼) in Capture mode.

The Mode Palette appears.

2 Use the four-way controller (▲▼◄►) to select (Night-Scene mode).

3 Press the OK button.

4 Press the shutter release button halfway.



The focus frame on the LCD monitor will light green when the camera is in focus.

5 Press the shutter release button fully.

The picture is taken.

memo Total recording time will be longer when the picture is taken at slower shutter speed (approximately 1/4 second or slower), because the noise reduction activates to reduce noise.

Caution The shutter speed is slower when taking pictures of dark scenes. To prevent camera shake, secure the camera on a tripod or other stable surface.

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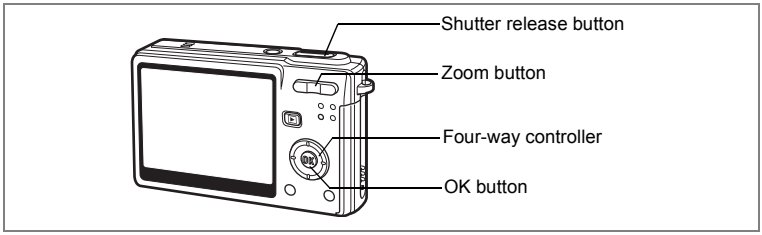
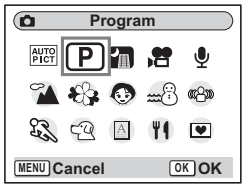


Taking Movies (Movie Mode)

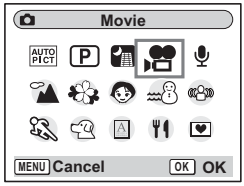
This mode enables you to take movies and sounds.

1 **Press the four-way controller (▼) in Capture mode.**

The Mode Palette appears.

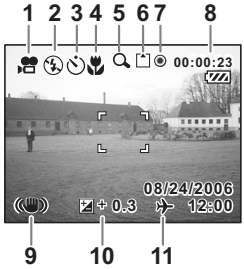


2 **Use the four-way controller (▲▼◄►) to select 🎥 (Movie mode).**



3 **Press the OK button.**

The following shooting information appears on the LCD monitor and the camera is ready to take movies.



1 Movie mode icon
2 Flash Off icon
3 Drive Mode
4 Focus Mode
5 Digital zoom
6 Card/Built-in memory
7 Recording mode icon
8 Recordable time
9 Movie anti-shake (On)
10 EV Compensation
11 World Time setting

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4 **Press the shutter release button.**

Shooting starts. You can change the size of the image using the zoom button.

: makes the subject bigger.

: makes the subject smaller.

5 **Press the shutter release button.**

Shooting ends.

Keeping the Shutter Release Button Pressed

If you keep the shutter release button pressed for more than one second, the movie will be taken for as long as you keep the button pressed. Shooting stops when you take your finger off the shutter release button.

Caution

- The flash will not discharge in Movie mode.
- Continuous shooting is not possible in Movie mode.
- You cannot use the remote control unit in Movie mode.
- Set the Movie anti-shake to Off to use the digital zoom in Movie mode.
- The optical zoom cannot be used while taking movies in Movie mode.
- The Focusing Area is fixed to Spot, and the Focus Limiter and the auxiliary AF light are set to Off in Movie mode. When Focus Mode is set to Autofocus or Macro, the AF operation is performed once right before starting taking a movie.

Playing Back Movies ☞p.111

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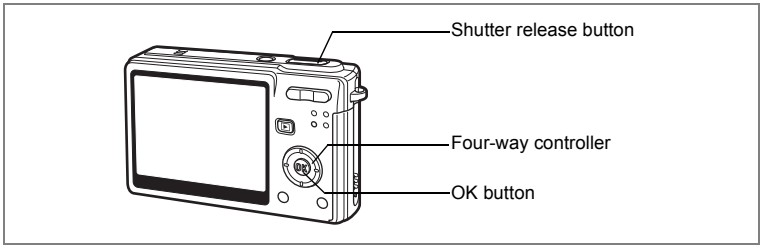


Reducing Camera Shake and Blurring in Photos (Blur reduction Mode)

Camera shake and blurring are reduced because the camera automatically increases the Sensitivity setting to allow for low light levels when taking photos. The shutter speed and aperture are also set automatically.

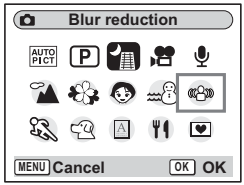
1 **Press the four-way controller (▼) in Capture mode.**

The Mode Palette appears.

2 **Use the four-way controller (▲▼◀▶) to select (Blur reduction mode).**

3 **Press the OK button.**

4 **Press the shutter release button halfway.**



The focus frame on the LCD monitor will light green when the camera is in focus.

5 **Press the shutter release button fully.**

The picture is taken.

- The Recorded Pixels are fixed at 4M and cannot be changed.
- When Sensitivity is set to auto, it may be set automatically at the maximum ISO 1600 if necessary.

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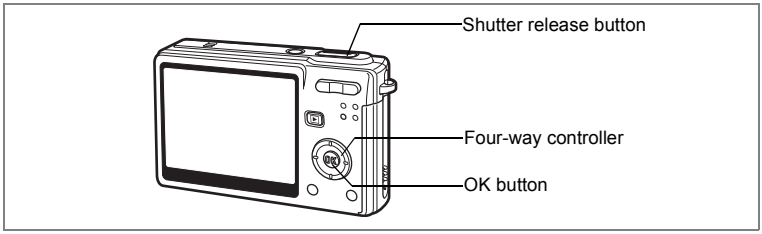


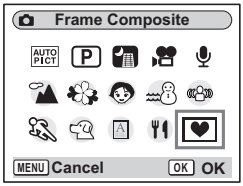
Taking Pictures in Frame Composite mode

You can take pictures with a decorative frame added using the Frame Composite function. There are three frames already stored in the camera.

1 **Press the four-way controller (▼) in Capture mode.**

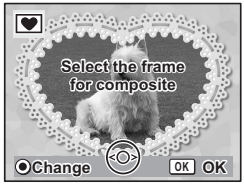
The Mode Palette appears.

2 **Use the four-way controller (▲▼◄►) to select (Frame Composite).**



3 **Press the OK button.**

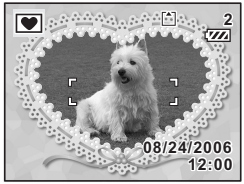
The frame selection screen appears.



4 **Use the four-way controller (◄►) to choose a frame.**

5 **Press the OK button.**

The subject appears in the selected frame.



6 **Press the shutter release button halfway.**

The focus frame on the LCD monitor will light green when the camera is in focus.

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7 Press the shutter release button fully.

The picture is taken.

memo

- The Recorded Pixels is fixed to 3M, and cannot be changed to any other size.
- Continuous Shooting is not possible in Frame Composite mode.

To Register a New Frame

To switch to the screen for registering a frame, press the Green button in Step 3. You can register frames which you have downloaded from the internet, etc. When you register a new frame, it replaces one of the existing frames in the built-in memory. Before you can register a new frame, copy it first to the SD Memory Card.

Caution

When a new frame on the SD Memory Card is registered in the built-in memory, it replaces one of the existing frames in the built-in memory. The replaced frame is deleted from the built-in memory.

1 In the frame selection screen, choose the frame you want to remove and press the Green button.

A message appears and the frames on the SD Memory Card that you can register in the built-in memory appear.

2 Use the four-way controller (◄►) to choose the frame you want to register and press the OK button.

The frame is registered in the built-in memory instead of the frame selected in Step 1.

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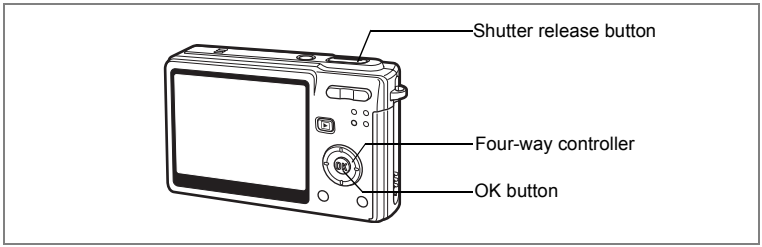

Using the Self-timer

In self-timer mode, the picture is taken ten seconds or two seconds after the shutter release button is pressed.

1 **Press the four-way controller (▲) in Capture mode.**

2 **Use the four-way controller (◄►) to select ⏲ or ⏲2s.**

3 **Press the OK button.**

The camera is ready to take pictures using the Self-timer.

4 **Press the shutter release button halfway.**

The focus frame on the LCD monitor will light green when the camera is in focus.

5 **Press the shutter release button fully.**

⏲ The self-timer is engaged and the self-timer lamp lights for about seven seconds. The picture is taken approximately three seconds after the self-timer lamp starts to blink.

⏲2s The self-timer is engaged and the picture is taken approximately two seconds after the self-timer lamp starts to blink.

Caution Focusing may be compromised if you move the camera while the self-timer is running.

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- The countdown is displayed on the LCD monitor when you press the shutter release button.
- If you press the shutter release button halfway while the camera is counting down, it stops counting down. And if you press the shutter release button fully, it starts counting down again from the beginning.

Troubleshooting “Subject is not in focus” ☞p.178

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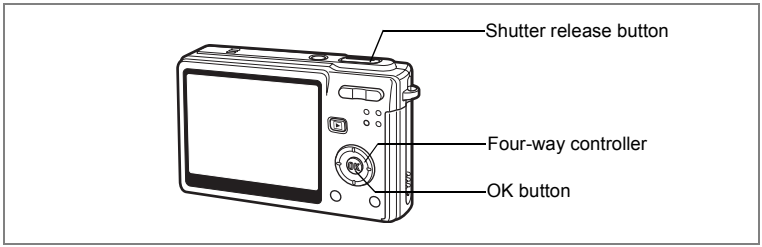

Continuous Shooting (Continuous Shooting Mode)

You can switch the Drive mode to Continuous Shooting mode. Pictures are taken continuously while the shutter release button is pressed.

1 **Press the four-way controller (▲) in Capture mode.**

2 **Use the four-way controller (◄►) to select .**

3 **Press the OK button.**

The camera is ready to take pictures continuously.

4 **Press the shutter release button halfway.**

The focus frame on the LCD monitor will light green when the camera is in focus.

5 **Press the shutter release button fully.**

Pictures are taken continuously while the shutter release button is pressed.
Shooting stops when you take your finger off the shutter release button.

memo

- You can continue shooting until the SD Memory Card or the built-in memory is full.
- The interval will vary according to the [Recorded Pixels] and [Quality Level] settings.

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Caution

- The flash will not discharge in Continuous Shooting mode.
- Continuous Shooting is not available for Movie or Frame Composite mode.
- The focus, exposure and white balance are locked with the first image.

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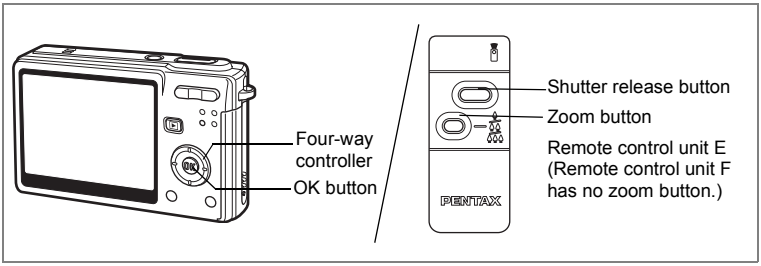

Using the Remote Control Unit (optional)

You can switch the Drive mode to Remote Control mode and take pictures using the remote control unit E or F (optional).

Taking Pictures Using the Remote Control

1 Press the four-way controller (▲) in Capture mode.

2 Use the four-way controller (◀▶) to select 3s or .

3 Press the OK button.

The self-timer lamp blinks slowly and the camera is ready to take the picture.

4 Press the shutter release button on the remote control unit.

3s The self-timer lamp blinks quickly and the picture is taken after approximately three seconds.

The picture is taken immediately.

Caution

- Focusing may be compromised if you move the camera while the self-timer lamp is blinking.
- You cannot use the remote control unit in Movie mode.

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Changing the Magnification Using the Remote Control Unit

You can not only shoot images with the shutter release button, but also change the zoom magnification with the zoom button using the remote control unit E (optional).

1 Press the four-way controller (▲) in Capture mode.

2 Use the four-way controller (◀▶) to select 3s or .

The function is same either in 3s or .

3 Press the zoom button on the remote control unit.

Each time you press the zoom button, the zoom position will change among tele, middle, and wide.

Caution

The zoom position will not change in Macro mode, even if you press the zoom button. If the camera is in the digital zoom range, the zoom magnification is cancelled when you press the zoom button.

memo

- The buttons on the camera can be used in the normal way.
- Ensure that the remote control unit is no more than about four meters away from the front of the camera.
- You cannot change the digital zoom range with the remote control unit; you can change only the optical zoom range.

Life of the Battery for the Remote Control Unit

A signal can be sent from the remote control unit to the camera approximately 30,000 times. Contact your nearest PENTAX customer service center if the battery needs changing. (A charge is made for changing the battery.)

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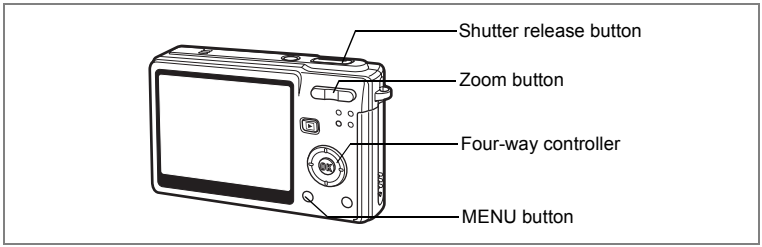


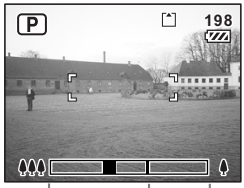
Using the Zoom to Change the Subject Size

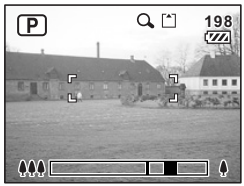
You can use the zoom to change the size of the subject and take pictures in Tele or Wide mode.

1 Press the zoom button in Capture mode.

- Tele: makes the subject bigger.
- Wide: makes the subject smaller.

When the digital zoom function is disabled, you can take pictures at up to three times magnification using the optical zoom. When the digital zoom function is enabled, you can further enlarge the subject to a maximum magnification equivalent to 12 times.





When digital zoom is enabled

Saving the Zoom Position ☞p.102

memo You cannot use the optical zoom when taking movies.

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Setting the Digital Zoom

The digital zoom is set to ☑ (On) in the default settings. To take pictures using only the optical zoom, set the digital zoom to □ (Off).

1 Press the MENU button in Capture mode.

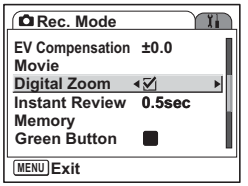
The [📷 Rec.Mode] menu appears.

2 Use the four-way controller (▲▼) to select [Digital Zoom].

3 Use the four-way controller (◀▶) to select ☑ (On)/□ (Off).

4 Press the shutter release button halfway.

The camera is ready to take pictures.



Saving the Digital Zoom Function Setting ☞p.102

Caution

Set the Movie anti-shake to Off to use the digital zoom in Movie mode.

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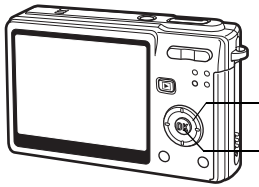

Selecting the Focus Mode

Focus mode

AF	Autofocus mode	The camera focuses on the object in the autofocus area when the shutter release button is pressed halfway. Use this mode when the distance to the subject is more than 40 cm (15.7 in.).
	Macro mode	This mode is used when the distance to the subject is approx. 15 cm – 50 cm (5.9 in. – 19.7 in.). The camera focuses on the object in the autofocus area when the shutter release button is pressed halfway.
PF	Pan Focus mode	This mode is used when shooting close and distant subjects together or the subject is hard to focus on. You can adjust the focus on a subject in the following ranges. When taking still pictures: approx. 1.3 m (4.3 ft.) to ∞ (full wide-angle), approx. 5.3 m (17 ft.) to ∞ (full telephoto) When taking movies: approx. 0.5 m (1.64 ft.) to ∞ (full wide-angle), approx. 2.1 m (6.9 ft.) to ∞ (full telephoto)
	Infinity mode	This mode is used for taking distant objects.
MF	Manual Focus mode	Adjust the focus manually with the four-way controller.

Saving the Focus Mode ☞p.102

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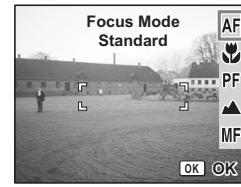
1 **Press the four-way controller (▶) in Capture mode.**

2 **Use the four-way controller (▲▼) to select the focus mode.**

3 **Press the OK button.**

The camera is ready to take pictures in the selected focus mode.



Caution

Auxiliary AF light

- The auxiliary AF light may be activated under low lighting in Autofocus mode.
- The auxiliary AF light of this camera conforms to the safety standard (IEC60825-1) for Class 1 LED product. Looking at the light directly will not create safety hazard. However, do not look into the emitter from a very short distance since you may feel dazzled.

memo

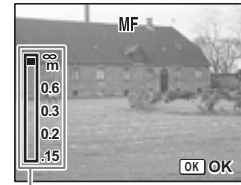
- The default setting is Autofocus mode.
- When Focus Mode is set to Autofocus or Macro in Movie mode, the AF operation is performed once just right before starting taking a movie.

Manual Focus

When the mode is set to **MF** (Manual Focus), press the OK button to make the central portion of the picture enlarged to full screen on the LCD monitor for focus adjustment. Use the four-way controller (▲▼) to adjust the focus while watching the indicator on the LCD monitor.

For distant focus

For closer focus



Indicator

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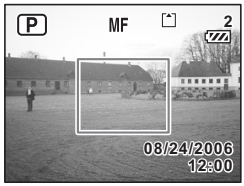
After the focus is corrected, press the OK button to set the focus position and return to the normal capture screen.
Press the four-way controller (▶) to readjust the focus position.



- To change the focus mode from **MF**, press the four-way controller (▶) two times while the indicator is displayed on screen.
- When you use Manual Focus in Movie mode, adjust the focus right before starting taking a movie. You cannot adjust the focus while taking the movie.

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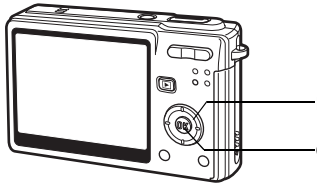


Selecting the Flash Mode

Flash Modes

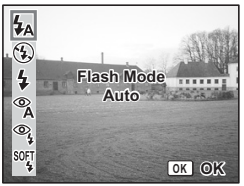
ϟA	Auto	The flash discharges automatically depending on the light conditions.
⊘	Flash Off	The flash will not discharge, regardless of the brightness. Use this mode to take pictures at dusk or in museums etc. where flash photography is prohibited.
ϟ	Flash On	The flash discharges regardless of the brightness.
◉A	Auto + Red-eye	This mode reduces the phenomenon of red eyes caused by the light from the flash being reflected in the subject's eyes. The flash discharges automatically.
◉ϟ	Flash On + red-eye	This mode reduces the phenomenon of red eyes caused by the light from the flash being reflected in the subject's eyes. The flash will discharge regardless of lighting conditions.
SOFT	Soft Flash	This mode reduces the intensity of the flash so that the flash is not too bright even when fired at close range. The flash will discharge regardless of the light conditions.

memo

- The flash is off when the Capture mode is set to 🎥 (Movie mode), Continuous Shooting, or Infinity.
- The flash discharges a total of two times, the pre-flash and the second time to take the pictures. (In the red-eye reduction modes, the interval between the pre-flash and the last flash is longer.)

1 **Press the four-way controller (◄) in Capture mode.**

2 **Use the four-way controller (▲▼) to select the flash mode.**



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3 Press the OK button.

The camera is ready to take pictures in the selected flash mode.

Saving the Flash Mode ☞p.102

Caution

- Using the flash in Macro mode may cause the image to be overexposed.
- The shutter speed is slower when taking pictures of dark scenes using a flash in Night Scene mode. To prevent camera shake, secure the camera on a tripod or other stable surface.

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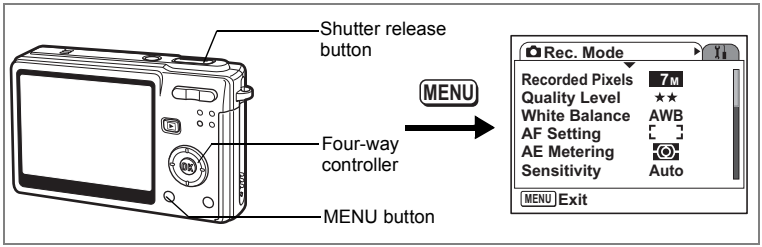


Selecting the Recorded Pixels of Still Pictures

You can choose the number of recorded pixels from [7M], [5M], [4M], [3M], [2M], [1024] and [640].
The more pixels there are, the larger the picture and the bigger the file size. The data volume also varies depending on the quality level setting (☞p.82).

Number of Recorded Pixels

7M (3072×2304)	Clear, Fine ↑	Printing images with high-resolution settings in your printer, Printing at A4 size or larger, Editing and processing images
5M (2592×1944)		
4M (2304×1728)		
3M (2048×1536)		
2M (1600×1200)		
1024 (1024×768)		Printing at postcard size
640 (640×480)		For use as images on websites, For attaching images to e-mail

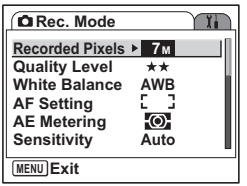
1 Press the MENU button in Capture mode.

The [📷 Rec.Mode] menu appears.

2 Use the four-way controller (▲▼) to select [Recorded Pixels].

3 Press the four-way controller (▶).

The pull-down menu appears.



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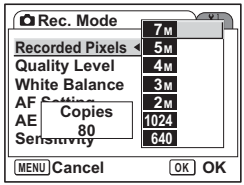
4 **Use the four-way controller (▲▼) to change the recording pixels.**

5 **Press the shutter release button halfway.**

The camera is ready to take the picture.



memo

- Selecting a large size produces a clear picture when it is printed out.
- The Recorded Pixels setting is saved when the camera is turned off.

Image Size and Quality of Still Pictures ☞p.25

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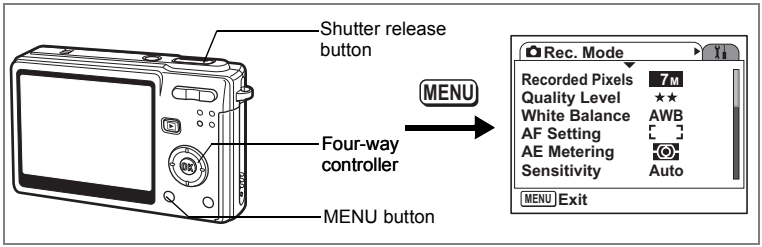


Selecting the Quality Level of Still Pictures

You can choose the image compression ratio.
The more stars, the clearer the quality and the larger the file size. The Recorded Pixels setting also changes the picture volume (☞p.80).

Quality Levels

★★★	Best	Lowest compression ratio. Suitable for photo prints.
★★	Better	Standard compression ratio. Suitable for viewing the image on a computer screen.
★	Good	Highest compression ratio. Suitable for attaching to e-mails or creating websites.

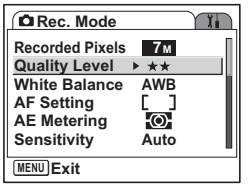
1 Press the MENU button in Capture mode.

The [📷 Rec.Mode] menu appears.

2 Use the four-way controller (▲▼) to select [Quality Level].

3 Press the four-way controller (▶).

The pull-down menu appears.



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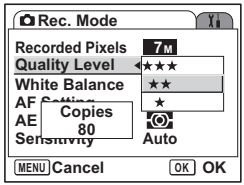
4 **Use the four-way controller (▲▼) to change the quality level.**

5 **Press the shutter release button halfway.**

The camera is ready to take the picture.



memo The Quality Level setting is saved when the camera is turned off.

Image Size and Quality of Still Pictures ☞p.25

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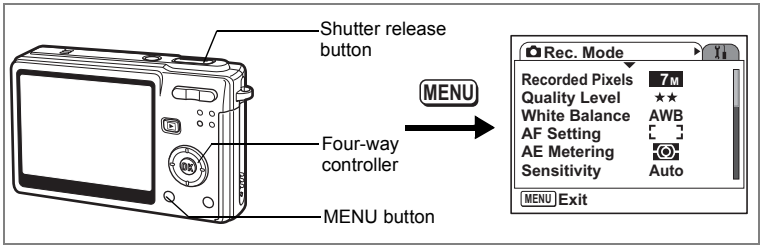


Adjusting the White Balance

You can select a white balance function best suited to the light conditions at the time of shooting. The Auto setting adjusts white balance automatically to reproduce natural colors. The Manual setting allows you to finely adjust white balance based on the subject you want to make appear white. You can also choose other white balance functions to reproduce colors more accurately depending on the weather or type of light source.

White Balance

AWB	Auto	The camera adjusts the white balance automatically.
☼	Daylight	Use this mode when taking pictures outside in sunlight.
⛅	Shade	Use this mode when taking pictures outside in the shade.
☼	Tungsten Light	Use this mode when taking pictures under electric or other tungsten light.
☼	Fluorescent Light	Use this mode when taking pictures under fluorescent light.
⎙	Manual	Use this mode when taking pictures by adjusting the white balance manually.

1 Press the MENU button in Capture mode.

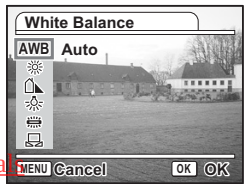
The [📷 Rec.Mode] menu appears.

2 Use the four-way controller (▲▼) to select [White Balance].

3 Press the four-way controller (▶).

The White Balance screen appears.

4 Use the four-way controller (▲▼) to change the setting.



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5 Press the shutter release button halfway.

The camera is ready to take the picture.

Saving the White Balance ☞p.102

Manual Setting

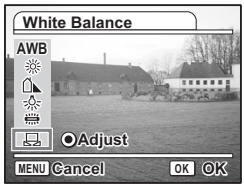
Place a white material such as a piece of white paper in front of your camera to adjust white balance.

1 Select [🖵] (Manual) on the White Balance screen.

2 Point the camera at the white material so that it fills the screen.

3 Press the Green button.

The white balance is automatically adjusted. [Complete] appears on the LCD monitor.



4 Press the OK button.

The setting now adjusted is saved and the screen returns to the [📷 Rec.Mode] menu.

5 Press the shutter release button halfway.

The camera is ready to take the picture.

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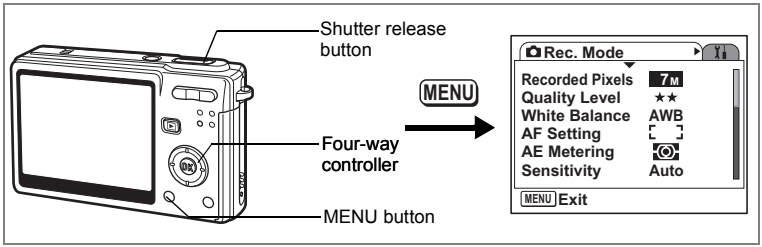


Selecting the Autofocus Settings

You can set the autofocus area and focusing method.

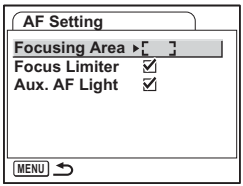
1 Press the MENU button in Capture mode.

The [Rec. Mode] menu appears.

2 Use the four-way controller (▲▼) to select [AF Setting].

3 Press the four-way controller (▶).

The AF Setting screen appears.



Changing the Focusing Area

You can change the autofocus area (Focusing Area).

Focusing Area

[ ]	Multiple	The camera measures a wide range in the center of the monitor (within the focusing area) and focuses on the nearest subject.
[ ]	Spot	The camera measures a narrow range in the center of the monitor (the spot focusing area) making easier for you to focus on a specific subject.
	Automatic tracking AF	The camera always continues to focus on a specified subject while the LCD monitor is on even if the subject moves.

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4 **Press the four-way controller (▶).**

The pull-down menu appears.

5 **Use the four-way controller (▲▼) to change the Focusing Area.**

6 **Press the shutter release button halfway.**

The camera is ready to take the picture.

Saving the Focusing Area Setting ☞p.102

Setting the Focus Limiter

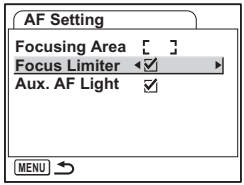
You can limit the focusing range of the lens in accordance with the shooting conditions. Turning on the Focus Limiter when the Focus Mode is set to “AF” limits the focus range which makes focusing faster.

4 **Use the four-way controller (▲▼) to select [Focus Limiter].**

5 **Use the four-way controller (◀▶) to select ☑ (On)/□ (Off).**

6 **Press the shutter release button halfway.**

The camera is ready to take the picture.



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Setting the Auxiliary AF Light

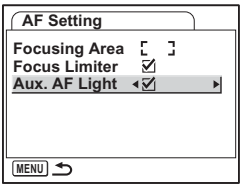
The auxiliary AF light is convenient when you shoot a dark subject. The function helps you to focus on the subject under the conditions in which the autofocus does not work properly.

4 **Use the four-way controller (▲▼) to select [Aux. AF Light].**

5 **Use the four-way controller (◀▶) to select ☑ (On)/□ (Off).**

6 **Press the shutter release button halfway.**

The camera is ready to take the picture.



Caution

The auxiliary AF light of this camera conforms to the safety standard (IEC60825-1) for Class 1 LED product. Looking at the light directly will not create safety hazard. However, do not look into the emitter from a very short distance since you may feel dazzled.

memo

The camera does not emit the auxiliary AF light under the following condition: the Capture mode is set to (Movie) or (Landscape), or the focus mode is set to pan focus, infinity mode, or manual focus. In the (Landscape) mode, however, you can let the camera emit the auxiliary AF light by setting [Aux. AF Light] to On.

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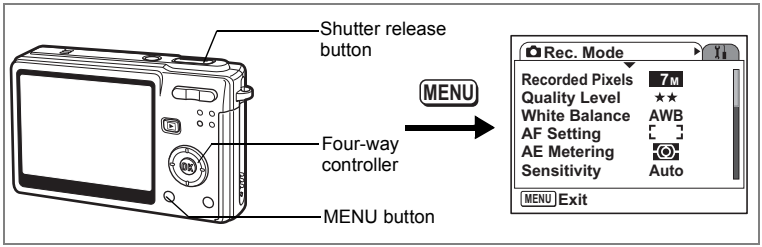


Setting the Light Metering Mode to Determine the Exposure

You can choose which part of the screen to use to measure the brightness and determine the exposure.

AE Metering Modes

	Multi-segment	The exposure is determined by the entire screen.
	Center-weighted	The exposure is determined mainly by the center of the screen.
	Spot	The exposure is determined by the small area in the center of the screen only.

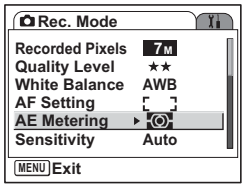
1 Press the MENU button in Capture mode.

The [Rec.Mode] menu appears.

2 Use the four-way controller (▲▼) to select [AE Metering].

3 Press the four-way controller (▶).

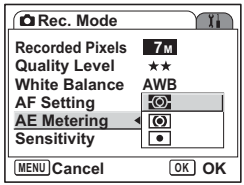
The pull-down menu appears.



4 Use the four-way controller (▲▼) to change the AE metering mode.

5 Press the shutter release button halfway.

The camera is ready to take the picture.



Saving the AE Metering Mode ☞p.102

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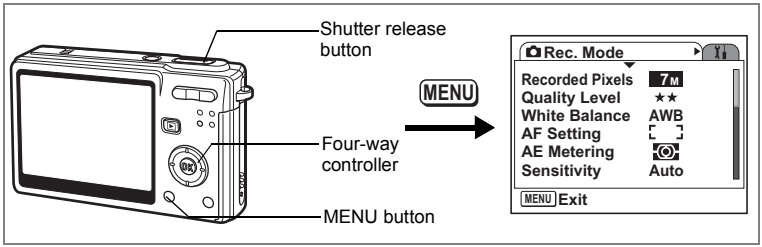


Setting the Sensitivity

You can select the sensitivity to suit the brightness of the surroundings.

Sensitivity

Auto	Flash does not discharge: Automatically set in a range from 50 to 200. Flash discharges: Automatically set in a range from 50 to 400.
50 100 200 400	• The lower the sensitivity (the lower values), the sharper the image and the less noise. The shutter speed will be slower in low light conditions. • The higher the sensitivity (the higher values), the faster the shutter speed in low light conditions to reduce camera shake, but the image may be affected by noise.

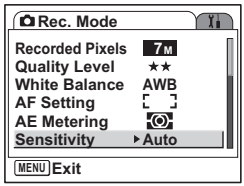
1 Press the MENU button in Capture mode.

The [Rec.Mode] menu appears.

2 Use the four-way controller (▲▼) to select [Sensitivity].

3 Press the four-way controller (▶).

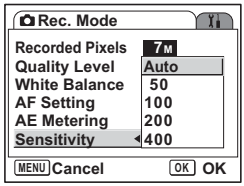
The pull-down menu appears.



4 Use the four-way controller (▲▼) to change the sensitivity.

5 Press the shutter release button halfway.

The camera is ready to take the picture.



Saving the Sensitivity ☞p.102

memo

You can select 800 or 1600 for Sensitivity in Blur reduction mode. When auto is set, the Sensitivity is set automatically in a range from 50 to 1600.

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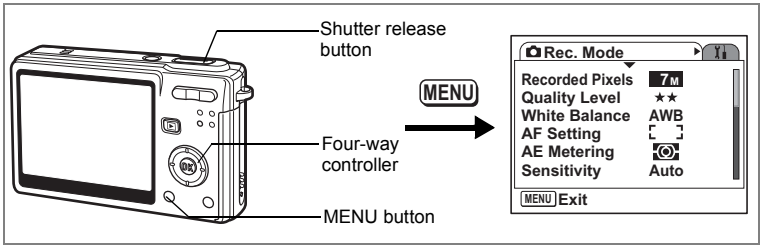


Setting the Exposure (EV Compensation)

You can adjust the overall brightness of the picture.
Use this function to take pictures that are intentionally overexposed or underexposed.

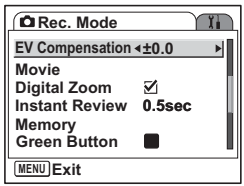
1 **Press the MENU button in Capture mode.**

The [Rec.Mode] menu appears.

2 **Use the four-way controller (▲▼) to select [EV Compensation].**

3 **Use the four-way controller (◄►) to change the EV setting.**

To brighten, set a positive (+) value. To darken, set a negative (–) value.
You can choose the EV setting in the range of –2.0 EV to +2.0 EV in 1/3 EV steps.



4 **Press the shutter release button halfway.**

The camera is ready to take the picture.

Saving the EV Compensation Value ☞p.102

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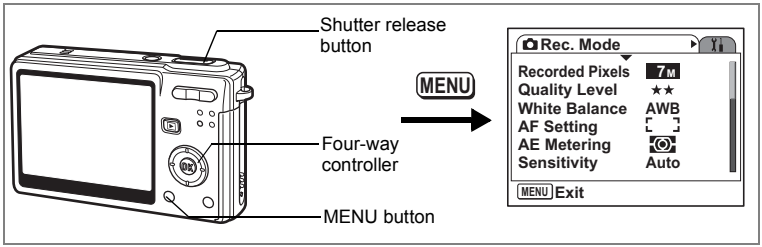


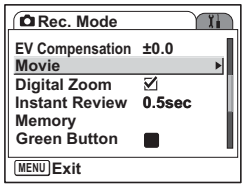
Selecting the Settings for Taking Movies

You can select the recorded pixels and quality level for taking movies.

1 Press the MENU button in Capture mode.

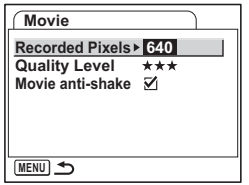
The [Rec. Mode] menu appears.

2 Use the four-way controller (▲▼) to select [Movie].



3 Press the four-way controller (▶).

The Movie setting menu appears.



Selecting the Recorded Pixels of Movies

You can choose the number of recorded pixels from 640 (640×480) and 320 (320×240). The more pixels are selected, the larger the file size. The file size also varies depending on the quality level setting.

Recorded Pixels

640 (640×480)	You can view high-quality movies at VGA size. The recordable time is shorter.
320 (320×240)	The file size is small and the recordable time is longer.

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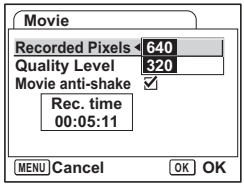
4 **Press the four-way controller (▶).**

The pull-down menu appears.

5 **Use the four-way controller (▲▼) to select [Recorded Pixels].**

The recordable time for the selected Recorded Pixels appears.



6 **Press the shutter release button halvway.**

The camera is ready to take the picture.

Size and Quality of Movies ☞p.26

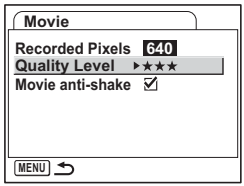
Selecting the Quality Level of Movies

You can choose the quality level from ★★★, ★★ and ★. The more ★, the clearer the movie appears and the larger the file size.

4 **Use the four-way controller (▲▼) to select [Quality Level].**

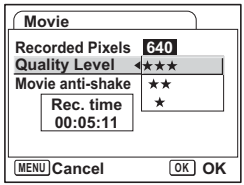
5 **Press the four-way controller (▶).**

The pull-down menu appears.



6 **Use the four-way controller (▲▼) to select Quality Level.**

The recordable time for the selected quality level appears.



7 **Press the shutter release button halvway.**

The camera is ready to take the picture.

Size and Quality of Movies ☞p.26

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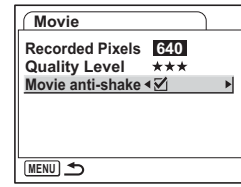
Compensating for Camera Shake

When you set Movie anti-shake to On, you can compensate for camera shake, which is more likely to occur while taking movies.

4 **Use the four-way controller (▲▼) to select [Movie anti-shake].**



5 **Use the four-way controller (◀▶) to select ☑ (On)/□ (Off).**

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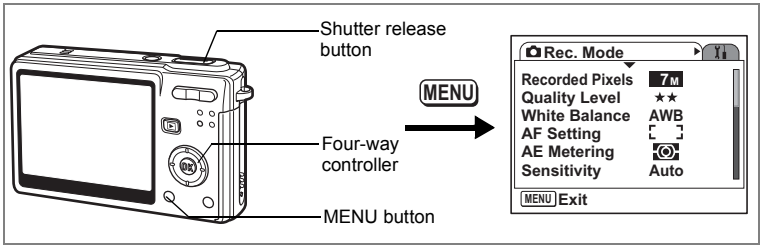


Setting the Instant Review Time

You can choose the Instant Review time from Off (no display), 0.5 sec., 1 sec., 2 sec., 3 sec., and 5 sec.

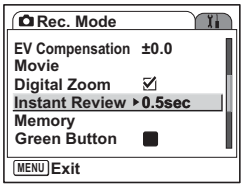
1 Press the MENU button in Capture mode.

The [Rec.Mode] menu appears.

2 Use the four-way controller (▲▼) to select [Instant Review].

3 Press the four-way controller (▶).

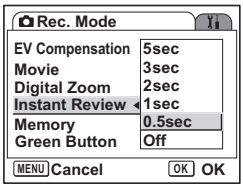
The pull-down menu appears.



4 Use the four-way controller (▲▼) to change the display time.

5 Press the shutter release button halfway.

The camera is ready to take the picture.



memo The Instant Review setting is saved when the camera is turned off.

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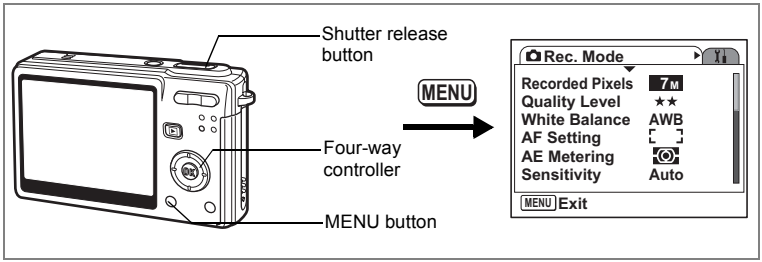


Setting the Green Button

You can register one of the two functions: Green Mode (p.53) or Fn Setting (p.97) on the Green button. The function can be activated simply by pressing the Green button.

Registering a Function (Green Mode)

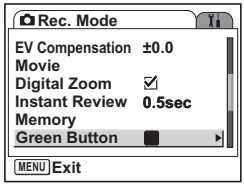
1 **Press the MENU button in Capture mode.**

The [Rec.Mode] menu appears.

2 **Use the four-way controller (▲▼) to select [Green Button].**

3 **Press the four-way controller (▶).**

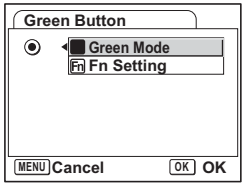
The Green button setting screen appears.



4 **Use the four-way controller (▲▼) to select the function you want to register.**

5 **Press the shutter release button halfway.**

The camera is ready to take the picture.



memo As the initial setting, the Green Mode function is registered.

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Registering Frequently Used Functions (Fn Setting)

You can register frequently used functions on the four-way controller. Using this function, you can directly set the functions by pressing the four-way controller without displaying the menu in Capture mode.
In Fn Setting, still picture mode and Movie mode have different settings. To execute Fn Setting for Movie mode, press MENU button in Movie mode in Step 1 on page 96.

4 **Use the four-way controller (▲▼) to select [Fn Setting].**

5 **Press the OK button.**

The Fn Setting screen appears.

6 **Use the four-way controller (▲▼) to select a key you want to assign a function to.**

7 **Press the four-way controller (►).**

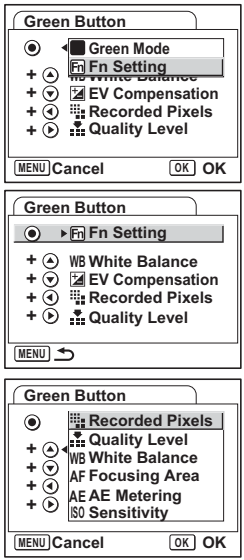
The pull-down menu appears.

8 **Use the four-way controller (▲▼) to select a function you want to assign.**

9 **Press the OK button.**

10 **Press the shutter release button halfway.**

The camera is ready to take the picture.



Caution This function is activated only when assigning the Fn Setting to the Green button.

memo You can assign only one function to each key.

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The initial settings for Fn Setting

	still picture mode	Movie mode
Initial settings	(▲) White Balance	(▲) Movie anti-shake
	(▼) EV Compensation	(▼) EV Compensation
	(◀) Recorded Pixels	(◀) Recorded Pixels
	(▶) Quality Level	(▶) Quality Level

Functions that can be registered on Fn Setting

	still picture mode	Movie mode
Setting items	Recorded Pixels	Recorded Pixels
	Quality Level	Quality Level
	White Balance	Movie anti-shake
	Focusing Area	White Balance
	AE Metering	EV Compensation
	Sensitivity	Sharpness
	EV Compensation	Saturation
	Sharpness	Contrast
	Saturation	Off
	Contrast	
	Off	

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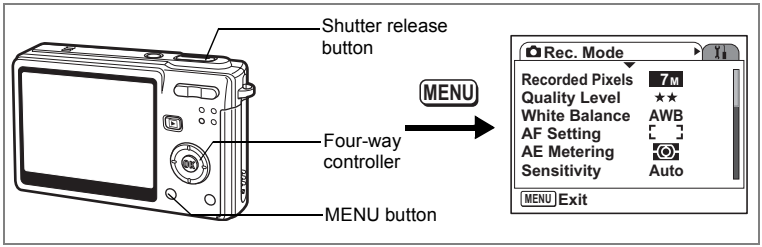


Setting the Image Sharpness

You can choose whether you want the image to have sharp or soft outlines.

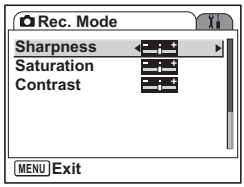
1 Press the MENU button in Capture mode.

The [Rec.Mode] menu appears.

2 Use the four-way controller (▲▼) to select [Sharpness].

3 Use the four-way controller (◄►) to adjust sharpness.

To soften the contours, choose (–) and to sharpen the contours, choose (+).



4 Press the shutter release button halfway.

The camera is ready to take the picture.

memo The Sharpness setting is saved when the camera is turned off.

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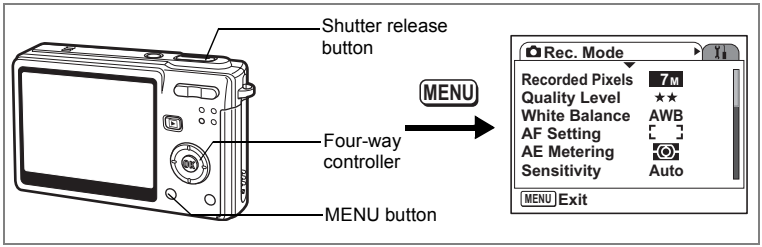


Setting the Color Saturation

You can set the color saturation.

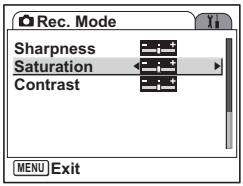
1 Press the MENU button in Capture mode.

The [Rec.Mode] menu appears.

2 Use the four-way controller (▲▼) to select [Saturation].

3 Use the four-way controller (◀▶) to adjust saturation.

To reduce the saturation, choose (–) and to increase the saturation, choose (+).



4 Press the shutter release button halfway.

The camera is ready to take the picture.

memo The Saturation setting is saved when the camera is turned off.

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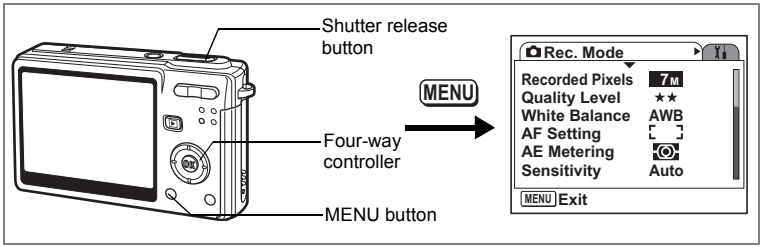


Setting the Image Contrast

You can set the image contrast.

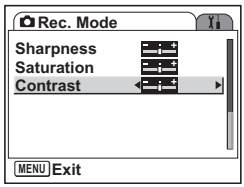
1 Press the MENU button in Capture mode.

The [Rec.Mode] menu appears.

2 Use the four-way controller (▲▼) to select [Contrast].

3 Use the four-way controller (◄►) to adjust contrast.

To reduce the contrast, choose (–) and to increase the contrast, choose (+).



4 Press the shutter release button halfway.

The camera is ready to take the picture.

memo The Contrast setting is saved when the camera is turned off.

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Saving the Menu Items (Memory)

You can choose whether you want the set values to be saved when the camera is turned off. If you select ☑ (On), the settings will be saved in the status they were in immediately before the camera was turned off. If you select □ (Off), the settings will be reset to the defaults when the camera is turned off.

Item	Description	Default Setting
Flash Mode	The flash mode setting on the ϟ button is saved.	☑
Drive Mode	The drive mode setting (⏲, etc.) selected using the four-way controller (▲) is saved.	□
Focus Mode	The focus mode setting on the 🌷 button is saved.	□
Zoom Position	The optical zoom position setting on the zoom button is saved.	□
MF Position	The manual focus position is saved.	□
White Balance	The [White Balance] setting on the [📷 Rec.Mode] menu is saved.	□
AE Metering	The [AE Metering] setting on the [📷 Rec.Mode] menu is saved.	□
Sensitivity	The [Sensitivity] setting on the [📷 Rec.Mode] menu is saved.	□
EV Compensation	The [EV Compensation] setting on the [📷 Rec.Mode] menu is saved.	□
Digital Zoom	The [Digital Zoom] setting (On/Off) on the [📷 Rec.Mode] menu is saved.	☑
DISPLAY	The LCD monitor display mode is saved.	□
File #	The file number is saved. If a new SD Memory Card is inserted, file numbers are assigned sequentially.	☑

memo

- Menu items not included in [Memory] will also be saved in the settings selected on the menus for each function when the camera is turned off.
- The zoom position setting in the digital zoom range will not be saved even if [Zoom Position] is set to ☑ (On) in [Memory].

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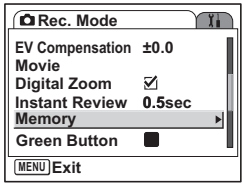
1 **Press the MENU button in Capture mode.**

The [📷 Rec.Mode] menu appears.

2 **Use the four-way controller (▲▼) to select [Memory].**

3 **Press the four-way controller (▶).**

The [Memory] menu appears.

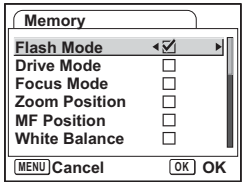


4 **Use the four-way controller (▲▼) to choose an item.**

5 **Use the four-way controller (◀▶) to select ☑ (On) or □ (Off).**

6 **Press the shutter release button halfway.**

The camera is ready to take the picture.



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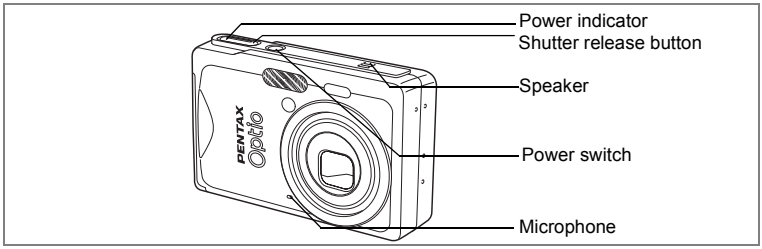
Recording Sound (Voice Recording Mode)

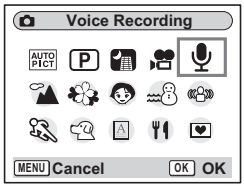
You can record sound. The recordable time appears on the LCD monitor according to how much space is available on the SD Memory Card.



1 **Press the four-way controller (▼) in Capture mode.**

The Mode Palette appears.

2 **Use the four-way controller (▲▼◄►) to select .**



3 **Press the OK button.**

The recordable time appears on the LCD monitor.

1 Remaining recordable time
2 Recording time

4 **Press the shutter release button.**

Recording starts. The access lamp lights during recording.

When the shutter release button is pressed for more than one second, recording continues for as long as the button is held down and stops when the button is released.

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5 **Press the shutter release button.**

Recording stops. The remaining recordable time appears.

6 **Press the four-way controller (▼) to display Mode Palette and change to another mode.**

You can exit the Voice Recording mode.

- Sound is saved in WAVE monaural files.
- The microphone is located on the front of the camera. Aim the camera to obtain the best sound.
- An index can be added by pressing the MENU button during recording.
- Continuous recording can be done for a maximum of 24 hours even if a large capacity memory card is used.

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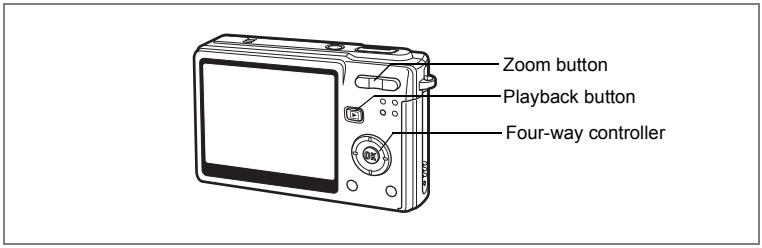
Playing Back Sound

You can play back the recording you made in Voice Recording mode.



1 Press the ▶ Playback button in the Voice Recording mode.

2 Use the four-way controller (◀▶) to choose the recording to play back.

3 Press the four-way controller (▲).

Playback starts.

- **The following operations can be performed during playback.**

Four-way controller (▲)	Pauses playback Press again to resume playback
If there are no recorded indexes:	
Four-way controller (◀)	Rewinds about five seconds
Four-way controller (▶)	Advances about five seconds
If there are recorded indexes:	
Four-way controller (◀)	Plays back starting from the previous index
Four-way controller (▶)	Plays back starting from the next index
Zoom button (🔊)	Increases the volume
Zoom button (🔉)	Reduces the volume

4 Press the four-way controller (▼).

Playback stops.

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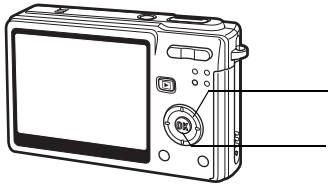
Adding a Voice Memo

You can add a voice memo to a captured image.



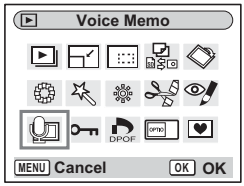
Recording a Voice Memo

1 Enter the Playback mode and use the four-way controller (◄►) to choose the image to which you want to add a voice memo.

2 Press the four-way controller (▼).

The Mode Palette appears.

3 Use the four-way controller (▲▼◄►) to select (Voice Memo).



4 Press the OK button.

Recording starts. You can record for up to 30 seconds.

5 Press the OK button.

Recording stops.

memo

- appears on the screen when a voice memo is added.
- A voice memo cannot be added to an image which already has a voice memo. Delete the old voice memo and record a new one. (☞p.117)

Caution

A voice memo cannot be added to protected (O-n) images.

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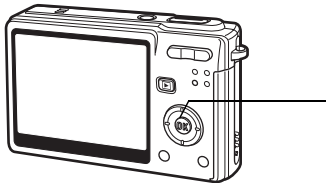

Playing Back a Voice Memo

1 **Enter the Playback mode and use the four-way controller (◀▶) to choose the still picture with the voice memo that you want to play back.**

If 🎵 appears on the displayed image, a voice memo has been recorded.

2 **Press the four-way controller (▲).**

Playback starts.

The following operations can be performed during playback.

Zoom button ( ) Increases the volume
Zoom button ( ) Reduces the volume

3 **Press the four-way controller (▼).**

Playback stops.

Deleting Voice Memos Only ☞p.117

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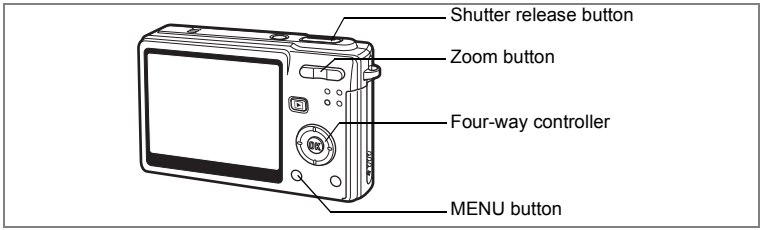
Playing Back Images

You can play back images recorded on the SD Memory Card when a card is inserted in the camera, or in the built-in memory when no card is inserted.



Playing Back Still Pictures

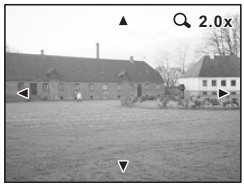
Press the ▶ Playback button.
Refer to “Playing Back an Image” (p.34), or “Playing Back the Previous or Next Image” (p.34) for instructions on playing back images.

Zoom Display

You can display images magnified up to eight times.

1 Enter the Playback mode and use the four-way controller (◀▶) to choose the image to magnify.

2 Press ▲/🔍 on the zoom button.



Each time you press the button, the zoom scaling changes as follows: 1.3×, 2.0×, 2.6×, 4.0×, 5.3×, 8.0×.

- **The following operations can be performed while the magnified image is displayed.**

Four-way controller (▲▼◀▶)	Moves the position to be magnified
Zoom button (▲)	Makes the image bigger
Zoom button (🔍)	Makes the image smaller

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3 **Press the MENU button.**

Zoom playback ends.

Setting the Quick Zoom Function

You can display the image at maximum magnification simply by pressing ▲/🔍 on the zoom button once during zoom playback.

1 **Press the MENU button.**

The [📷 Rec.Mode] menu appears.

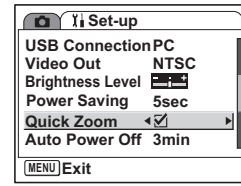
2 **Press the four-way controller (▶).**

3 **Use the four-way controller (▲▼) to select [Quick Zoom].**

4 **Use the four-way controller (◀▶) to select ☑ (On)/□ (Off).**

5 **Press the shutter release button halfway.**

The camera is ready to take the picture.



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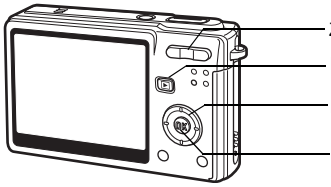

Playing Back Movies

You can play back movies. A guide to operation appears on the LCD monitor during playback. Operations include playback, frame by frame playback (forward or reverse), pause and volume adjustment.

1 Enter the Playback mode and use the four-way controller (◀▶) to choose the movie to play back.

2 Press the four-way controller (▲).

Playback starts.

- **The following operations can be performed during playback.**

Four-way controller (◀)	Fast-rewind playback
Four-way controller (▶)	Fast-forward playback
Four-way controller (▲)	Pause
OK button	Changes the display mode (☞p.112)
Zoom button 🔺/🔻	Adjusts the volume

- **The following operations can be performed while pause is engaged.**

Four-way controller (◀)	Frame reverse
Four-way controller (▶)	Frame forward
Four-way controller (▲)	Releases the pause function
OK button	Changes the display mode (☞p.112)

3 Press the four-way controller (▼).

Playback stops and the screen returns to the first frame.

4 Press the ▶ Playback button.

The camera returns to Capture mode.

Caution No sound is output during fast-rewind and fast-forward playback.

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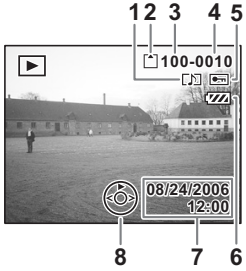
Displaying Shooting Information in Playback Mode

Shooting information can be displayed on the LCD monitor in Playback mode. Pressing the OK button changes the display mode.The Histogram is not displayed while playing back movies.

Normal Display

Shooting information is displayed.

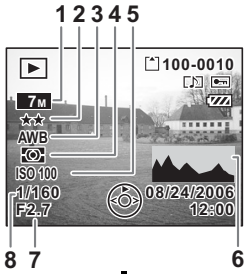
1 Voice Memo icon
2 Card/Built-in memory icon
3 Folder name **4** File name
5 Protect icon **6** Battery indicator
7 Shooting date and time
8 Four-way controller operation guide



Histogram Display

The brightness distribution of the image is displayed. The horizontal axis shows the brightness (darkest at the left end and brightest at the right end) and the vertical axis shows the number of pixels.

1 Recorded pixels **2** Quality level
3 White balance **4** AE metering
5 Sensitivity **6** Histogram
7 Aperture **8** Shutter speed



No icons

No shooting information is displayed.

Normal Display

Saving the Display Mode ☞p.102

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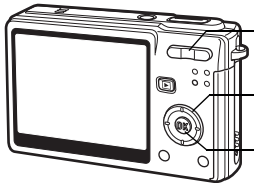
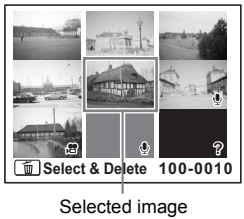


Nine-Image Display

You can display nine images at the same time.

1 Enter the Playback mode and use the four-way controller (◀▶) to choose an image.

2 Press 🌷/▦ on the zoom button.



Selected image

A page consisting of nine thumbnail images appears. The displayed images change nine at a time page by page.
Use the four-way controller (▲▼◀▶) to move the frame. When ten or more images have been saved, if you choose an upper-left image and press the four-way controller (◀), the previous page appears. Similarly, if you choose a lower-right image and press the four-way controller (▶), the next page appears.

The icons that appear on the images indicate the following:

No icon	: Still picture without voice memo
(with image)	: Still picture with voice memo
	: Movie (first frame appears)
(without image)	: Sound file only
	: Undisplayable image

3 Press the OK button.

The screen returns to full screen display of the selected image.

memo Pressing the MENU button, OK button or 🌷/🔍 on the zoom button returns the screen to full screen display of the selected image.

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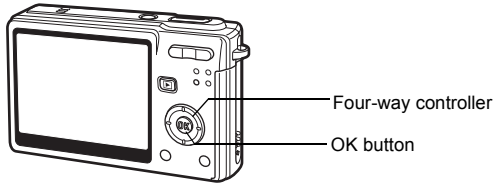


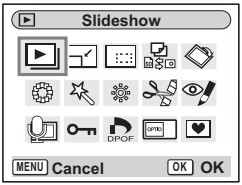
Slideshow

You can play back all the images on the SD Memory Card or in the built-in memory continuously.

1 **Enter the Playback mode and use the four-way controller (◄►) to choose the image with which to start the slideshow.**

2 **Press the four-way controller (▼).**

The Mode Palette appears.

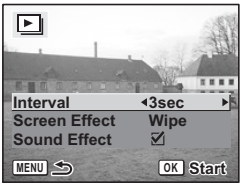


3 **Use the four-way controller (▲▼◄►) to select (Slideshow).**

4 **Press the OK button.**

5 **Use the four-way controller (◄►) to change the playback interval.**

Choose from the following: [3 sec], [5 sec], [10 sec], [20 sec], [30 sec].



6 **Use the four-way controller (▼) to select [Screen Effect].**

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7 Use the four-way controller (◄►) to select the effect.

Wipe	The effect is like a slide show that slides the displayed images one by one to the left.
Fade	The current image gradually disappears and the next image appears under it.
Shrink	The current image shrinks towards the center.
Off	No screen effect.

8 Press the four-way controller (▼) to select [Sound Effect].

9 Use the four-way controller (◄►) to select ☑ (On)/□ (Off).

10 Press the OK button.

[Start] appears on the LCD monitor and playback starts at the set interval. If you press the OK button while playing back the slideshow, the slide show is paused. Press the OK button during playback pause to resume the slideshow.

Press any button other than the OK button to stop the slideshow. [Stop] appears on the LCD monitor.

- The slideshow will continue until you press any button.
- Movies and pictures with a voice memo will be played through to the end before the next picture is played back, regardless of the set playback interval.
- Recordings made in Voice Recording mode are not played back.

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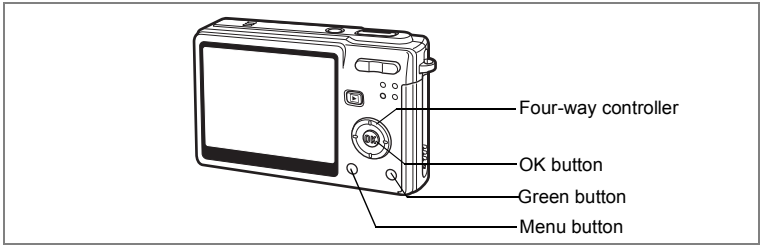

Deleting a Single Image, Movie or Sound

You can delete a single image, movie or sound.

Caution Once deleted, images, movies or sounds cannot be restored.

1 Enter the Playback mode and use the four-way controller (◀▶) to choose the image, movie or sound to delete.

2 Press the Green button.

The Delete screen appears.

3 Press the four-way controller (▲) to select [Delete].

4 Press the OK button.

The image, movie or sound is deleted.

memo
- You can also delete images from Instant Review. (☞p.95)
- You cannot delete protected (🔑) images, movies or sounds. (☞p.121)

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Deleting a Voice Memo only

If an image has a voice memo, you can delete the voice memo without deleting the image.

1 **Enter the Playback mode and use the four-way controller (◄►) to choose an image with a voice memo to delete.**

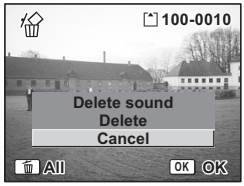
2 **Press the Green button.**

The Delete screen appears.

3 **Use the four-way controller (▲) to select [Delete sound].**

4 **Press the OK button.**

The voice memo is deleted.



memo Select [Delete] in Step 3 above to delete both the image and the voice memo.

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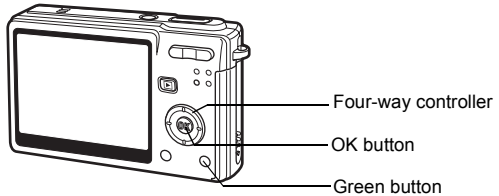


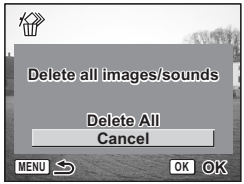
Deleting All Images

You can delete all the images, movies and sounds at once.

Caution Once deleted, images, movies or sounds cannot be restored.

1 Enter the Playback mode and press the Green button twice.

The Delete All screen appears.



2 Press the four-way controller (▲) to select [Delete all].

3 Press the OK button.

All the images and sounds will be deleted.

memo You cannot delete protected (🔑) images, movies or sounds. (☞p.121)

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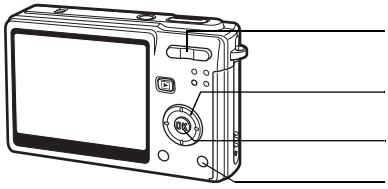
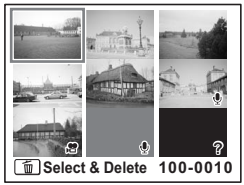


Deleting Selected Images and Sound Files (from Nine-Image Display)

You can delete several images/sound files selected from the nine-image display at once.

1 Enter the Playback mode and press 🌷/▦ on the Zoom button.

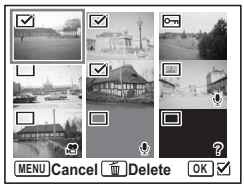
Nine thumbnail images appear.



2 Press the Green button.

□ appears on the images and sound files.

3 Use the four-way controller (▲▼◀▶) to choose the images and sound files that you want to delete and press the OK button.



☑ appears on the selected images and sound files.

If you select an image and press 🌷/🔍 on the Zoom button, the selected image appears in single-image display, enabling you to check whether you really want to delete it or not (The nine-image display returns if no operations are done for one minute or when the OK button is pressed.). However, protected images cannot be displayed in single-image display.

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4 **Press the Green button.**

A confirmation dialog appears.

5 **Use the four-way controller (▲▼) to select [Select & Delete].**

6 **Press the OK button.**

The selected images and sound files are deleted.

memo You cannot delete protected (🔑) images, movies or sounds.

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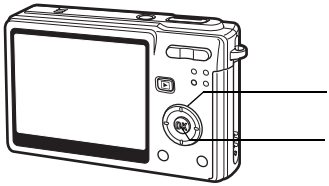


Protecting Images, Movies and Sounds from Deletion (Protect)

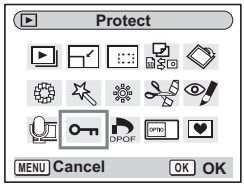
You can protect images, movies and sounds from being accidentally deleted.

1 **Enter the Playback mode and use the four-way controller (◄►) to choose the image, movie or sound to protect.**

2 **Press the four-way controller (▼).**
The Mode Palette appears.

3 **Use the four-way controller (▲▼◄►) to select (Protect).**

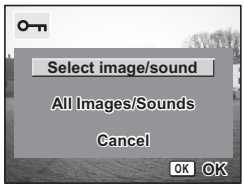
4 **Press the OK button.**
The Protect screen appears.



Protecting Images, Movies and Sounds

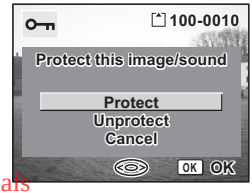
5 **Use the four-way controller (▲▼) to select [Select image/sound].**

6 **Press the OK button.**



7 **Use the four-way controller (▲▼) to select [Protect].**

8 **Press the OK button.**



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- Select [Unprotect] in Step 7 to cancel the Protect setting.
- If the image, movie or sound is protected, the icon appears when it is played back.

Protecting All Images, Movies and Sounds

You can protect all the images, movies and sounds.

5 **Use the four-way controller (▲▼) to select [All Images/Sounds].**

6 **Press the OK button.**

The [Protect all images/sounds] message appears.

7 **Use the four-way controller (▲▼) to select [Protect].**

8 **Press the OK button.**

Select [Unprotect] in Step 7 to cancel the Protect setting on all the images, movies and sounds.

Caution

Even protected images, movies and sounds will be deleted by formatting the SD Memory Card or built-in memory.

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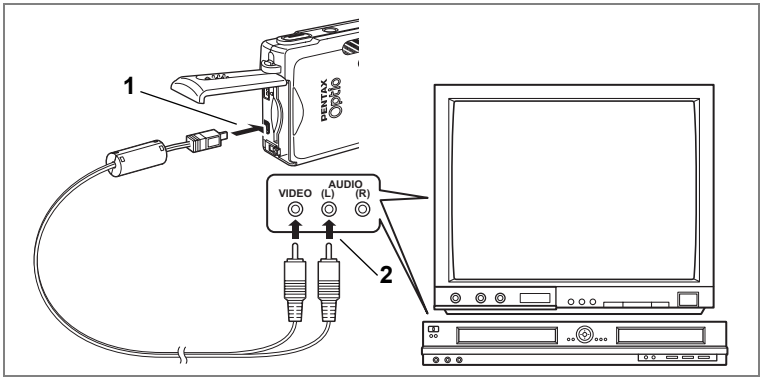
Viewing Images on AV Equipment



By using the AV cable, you can capture, play back and dub images on a TV or other equipment with a video IN jack. Make sure that both the AV equipment and the camera are turned off before connecting the cable.

1 Open the battery/card cover and connect the AV cable supplied with the AV terminal.

2 Connect the other end of the AV cable to the AV equipment.

Yellow (video) → video input terminal
White (audio) → sound input terminal
When using stereo sound equipment, insert the sound jack into the L (white) terminal.

3 Turn the AV equipment on.

When the AV equipment connected to the camera and the AV equipment used to view images are separate, turn both pieces of equipment on.
To view images on a TV with several video inputs, switch the video inputs to the one connected to the camera, referring to the operating manual for the TV.

4 Turn the camera on.

Changing the Video Output Format ☞p.162

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- If you intend to use the camera for a long time, use of the AC adapter kit K-AC8 (optional) is recommended. Refer to the operating manual for the TV or equipment to which the camera is connected.
- Images may not be displayed properly depending on the countries or areas when the Video Out setting is the default. In this situation, change the Video Out setting.
- While the camera is connected to the TV, the LCD monitor of the camera will be turned off.

Playing Back an Image Using the Remote Control Unit (optional)

When the AV cable is connected to the camera, the image can be displayed using the remote control unit E or F (optional).

1 Press the ▶ Playback button.

2 Press the Shutter release button or the zoom button of the remote control unit.

Shutter release button: displays the next image.
Zoom button: displays the previous image.

- As there is no zoom button on the remote control unit F, only an operation using the shutter release button (displaying the next image) is available.
- You cannot play back movies, images with a voice memo, and sound files recorded in Voice Recording mode, using the remote control unit.

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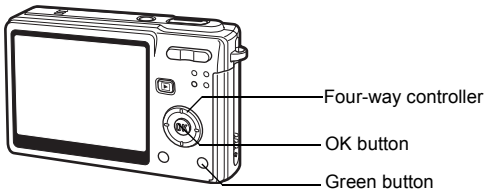
Setting the Printing Service (DPOF)

You can print the images on the SD Memory Card using a DPOF (Digital Print Order Format) compatible printer or at a printing service.



Printing Single Images

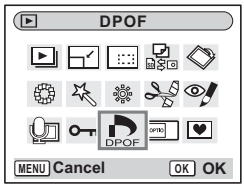
Set the following items for each image.
Copies: Choose the number of copies up to a maximum of 99.
Date: Specify whether you want the date imprinted on the print or not.

1 **Enter the Playback mode and use the four-way controller (◄►) to choose the image to print.**

2 **Press the four-way controller (▼).**
The Mode Palette appears.

3 **Use the four-way controller (▲▼◄►) to select DPOF (DPOF).**

4 **Press the OK button.**
The DPOF screen appears.



5 **Press the OK button.**

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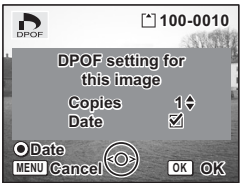
6 Use the four-way controller (▲▼) to choose the number of copies.

7 Use the Green button to select ☑ (On)/□ (Off) of [Date].

☑ (On) : The date will be imprinted.
□ (Off) : The date will not be imprinted.



8 Press the OK button.

Prints can be made according to the settings.

memo

- If DPOF settings have already been made for an image, the previous number of copies and date setting will be displayed.
- To cancel DPOF settings, set the number of copies to 0 and press the OK button.

Caution

- You cannot set the printing service for movies or sound-only files.
- Depending on the printer or printing equipment at the photo processing lab., the date may not be imprinted on the pictures even if the DPOF settings were made.

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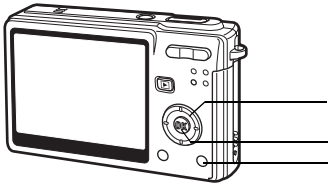

Printing All Images

1 **Enter the Playback mode and press the four-way controller (▼).**

The Mode Palette appears.

2 **Use the four-way controller (▲▼◀▶) to select (DPOF).**

3 **Press the OK button.**

4 **Use the four-way controller (▼) to select [All Images].**

5 **Press the OK button.**

6 **Use the four-way controller (▲▼) to choose the number of copies.**

You can print up to 99 copies.

7 **Use the Green button to choose whether to insert the date or not.**

☑ (On) : The date will be imprinted.
□ (Off) : The date will not be imprinted.

8 **Press the OK button.**

Prints can be made according to the settings.

Caution The number of copies specified in the DPOF settings applies to all the images. Before printing, check that the number is correct.

memo
- Settings for single images are cancelled when settings are made for all images.
- DPOF settings are not possible for movies.

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Direct Printing Using PictBridge

By connecting the camera to a printer that supports PictBridge using the USB cable (I-USB17) supplied with the camera, you can print images directly from the camera without using a PC. Select the images you want to print and the number of copies on the camera after it has been connected to the printer.

Caution

- You are recommended to use the AC adapter kit K-AC8 (optional) while the camera is connected to the printer. The printer may not work properly or the image data may be damaged if the battery runs out of power while the camera is connected to the printer.
- The access lamp blinks slowly while data is being transferred from the camera to the printer.
- Do not disconnect the USB cable during data transfer.
- Depending on the type of printer, not all the settings made on the camera (such as DPOF settings) may be valid.

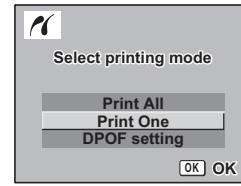
Connecting the Camera to the Printer

1 Select [PictBridge] for [USB Connection] on the [Set-up] menu.

☞"Changing the USB Connection Mode" (p.162)

2 Connect the camera to the printer using the USB cable supplied with the camera.

The PictBridge menu appears.



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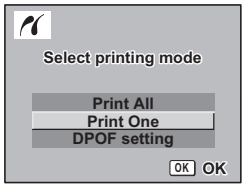
Printing Single Images

1 **Use the four-way controller (▲▼) to select [Print One].**

2 **Press the OK button.**

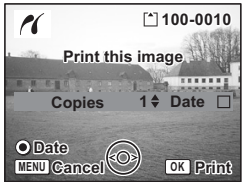
The Print this image screen appears.



3 **Use the four-way controller (◀▶) to choose the image to print.**

4 **Use the four-way controller (▲▼) to choose the number of copies.**

You can print up to 99 copies.

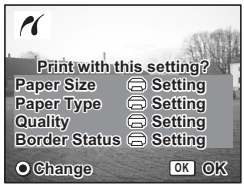


5 **Use the Green button to choose whether to insert the date or not.**

☑ (On) : The date will be imprinted.
□ (Off) : The date will not be imprinted.

6 **Press the OK button.**

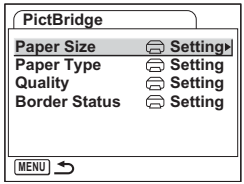
The print settings confirmation screen appears.
To print the image according to the print settings on the printer, press the OK button.
To change the print settings, go to Step 7.



7 **Press the Green button.**

The Change setting screen appears.

8 **Select [Paper Size] and press the four-way controller (▶).**



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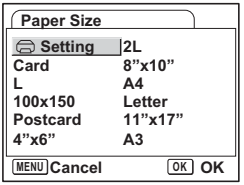
9 **Use the four-way controller (▲▼◀▶) to choose the paper size.**

You can select only the print sizes available with the printer you are using.



10 **Press the OK button.**

11 **Repeat Step 8 to 10 to set [Paper Type] [Quality] and [Border Status].**

When the Paper Size is set to [Setting], images are printed according to the printer settings.
Paper Type with more ★ supports higher quality paper.
Quality with more ★ indicates higher print quality.

12 **Press the OK button twice.**

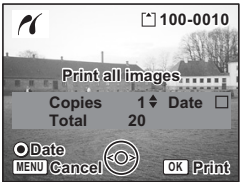
The image is printed according to the settings.
Press the MENU button to cancel printing.

Printing All Images

1 **Use the four-way controller (▲▼) to select [Print All].**

2 **Press the OK button.**

The Print All screen appears.
Use the four-way controller (◀▶) to check the images and make sure you want to print them all.



3 **Set the number of copies, the setting of the date imprint, and confirm the print setting.**

To set these items, refer to Steps 4 to 11 on “Printing Single Images” (pages 129 to 130).

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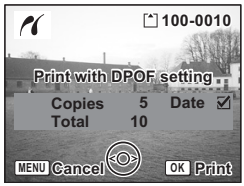
Printing Using the DPOF Settings

1 **Use the four-way controller (▲▼) to select [DPOF setting].**

2 **Press the OK button.**

The DPOF setting screen appears.
Use the four-way controller (◄►) to check the images and the print settings.



3 **Set the number of copies, the setting of the date imprint, and confirm the print setting.**

To set these items, refer to Steps 4 to 11 on “Printing Single Images” (pages 129 to 130).

Disconnecting the Camera from the Printer

Disconnect the camera from the printer when you have finished printing.

1 **Turn the camera off.**

2 **Disconnect the USB cable from the camera.**

3 **Disconnect the USB cable from the printer.**

memo When you disconnect the USB cable from the camera before you turn the camera off, the camera returns to Playback mode.

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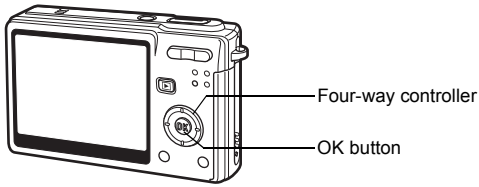


Changing the Image Size and Quality

By changing the size and quality of a selected image, you can make the file smaller than the original. You can use this function to continue taking pictures when the card or memory is full, by making the images smaller and overwriting the original images to make more space available in the memory.

After changing the size and quality, the image can be saved as a new image or written over the original image.

1 Use the four-way controller (◄►) in Playback mode to select an image to resize.

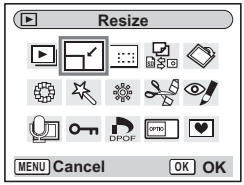
2 Press the four-way controller (▼).

The Mode Palette appears.

3 Use the four-way controller (▲▼◄►) to select (Resize).

4 Press the OK button.

The Resize screen appears.



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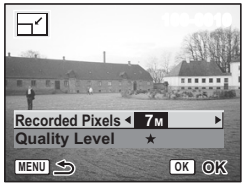
5 **Use the four-way controller (◄►) to change the size.**



6 **Press the four-way controller (▼).**

The frame moves to [Quality Level].

7 **Use the four-way controller (◄►) to change the quality.**

8 **Press the OK button.**

9 **Use the four-way controller (▲▼) to select [Overwrite] or [Save as].**

If the image is protected, it is automatically saved as a new file.

10 **Press the OK button.**

The resized image is saved.

memo

- Movies cannot be resized.
- You cannot select a larger size than that of the original image.
- Protected (O-n) images cannot be overwritten.
- You can resize only still pictures taken with this camera.

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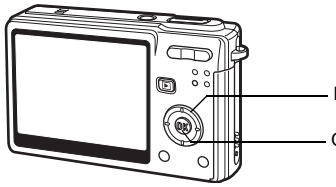


Cropping Images

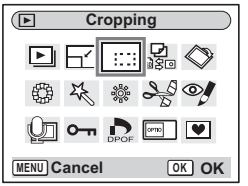
You can crop part of a picture and save it as a separate image.

1 **Use the four-way controller (◄►) in Playback mode to select an image to crop.**

2 **Press the four-way controller (▼).**

The Mode Palette appears.

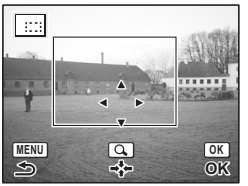
3 **Use the four-way controller (▲▼◄►) to select (Cropping).**



4 **Press the OK button.**

The Cropping screen appears.

5 **Crop the image.**



- **Operations that can be performed on the Cropping screen**

  Zoom button: Changes the size of the cropping

  Four-way controller (▲▼◄►): Moves the cropping position up, down, left and right

  MENU button: Returns to the Mode Palette.

6 **Press the OK button.**

The cropped image is saved as a separate image.

memo

- Movies cannot be cropped.
- The image size is changed and saved.
- You can crop only still pictures taken with this camera.

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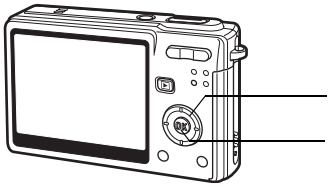


Rotating the Displayed Image

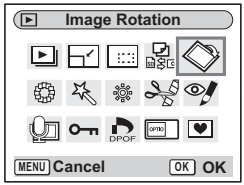
You can rotate a displayed image on the LCD monitor.

1 **In Playback mode, use the four-way controller (◄►) to select the image to be rotated.**

2 **Press the four-way controller (▼) in Playback mode.**

The Mode Palette appears.

3 **Use the four-way controller (▲▼◄►) to select ◇ (Image Rotation).**

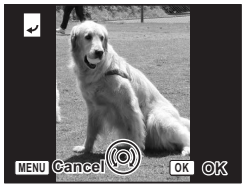


4 **Press the OK button.**

The Image Rotation screen appears.

5 **Press the four-way controller (►) or the four-way controller (◄).**

The image is rotated 90° clockwise each time you press the four-way controller (►), and the image is rotated 90° counterclockwise each time you press the four-way controller (◄).



6 **Press the ▶ button.**

The camera saves the rotated image and returns to Playback mode.

memo

- You can rotate protected (🔑) images, but the rotated image will not be saved.
- You cannot rotate movies.

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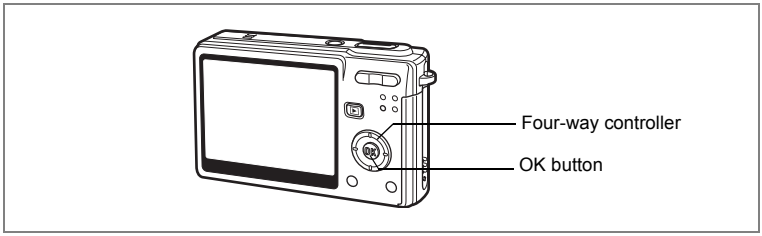


Editing Pictures with Color Filters

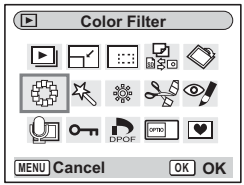
This function enables you to edit still pictures with color filters.
You can choose from thirteen filters: B&W, Sepia, Eight different colors, B&W + Red, B&W + Green, and B&W + Blue.

1 **Use the four-way controller (◄►) in Playback mode to select an image to edit.**

2 **Press the four-way controller (▼).**

The Mode Palette appears.

3 **Use the four-way controller (▲▼◄►) to select (Color Filter).**



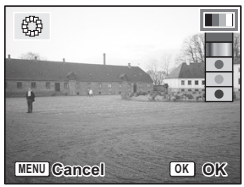
4 **Press the OK button.**

The color filter screen appears.

5 **Use the four-way controller (▲▼) to choose a desired filter.**

6 **Press the OK button.**

The overwrite confirmation screen appears.



7 **Use the four-way controller (▲▼) to select [Overwrite] or [Save as].**

If the image is protected, it is automatically saved as a new file.

8 **Press the OK button.**

The edited image is saved with the same number of recorded pixels and quality level as the original.

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5 **Use the four-way controller (▲▼) to select the color filter (eight colors).**

The color bar appears.

6 **Use the four-way controller (◀▶) to select a desired color.**

7 **Press the OK button.**

The Overwrite confirmation screen appears.

8 **Use the four-way controller (▲▼) to select [Overwrite] or [Save as].**

If the image is protected, it is automatically saved as a new file.

9 **Press the OK button.**

The edited image is saved with the same number of recorded pixels and quality level as the original.

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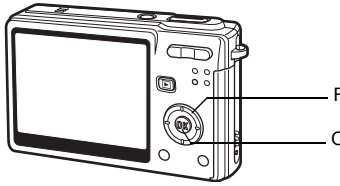


Editing Pictures with the Digital Filter

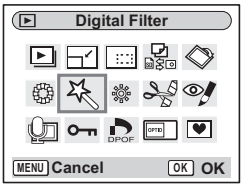
This function enables you to apply special effects to still pictures with the digital filter. You can choose from five filters: Soft, Illustration, Special Effect 1, Special Effect 2 and Slim.

1 **Use the four-way controller (◄►) in Playback mode to choose an image to edit.**

2 **Press the four-way controller (▼).**

The Mode Palette appears.

3 **Use the four-way controller (▲▼◄►) to select (Digital Filter).**



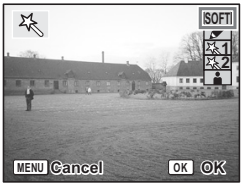
4 **Press the OK button.**

The Digital Filter screen appears.

5 **Use the four-way controller (▲▼) to select a desired filter.**

6 **Press the OK button.**

The overwrite confirmation screen appears.



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7 **Use the four-way controller (▲▼) to select [Overwrite] or [Save as].**

If the image is protected, it is automatically saved as a new file.

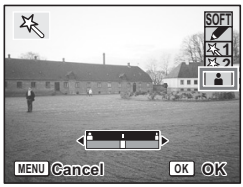
8 **Press the OK button.**

The edited image is saved with the same number of recorded pixels and quality level as the original.

Selecting the Slim Filter

5 **Use the four-way controller (▲▼) to select the slim filter.**

6 **Use the four-way controller (◀▶) to adjust the strength of the slim effect.**



7 **Press the OK button.**

The overwrite confirmation screen appears.

8 **Use the four-way controller (▲▼) to select [Overwrite] or [Save as].**

If the image is protected, it is automatically saved as a new file.

9 **Press the OK button.**

The edited image is saved with the same number of recorded pixels and quality level as the original.

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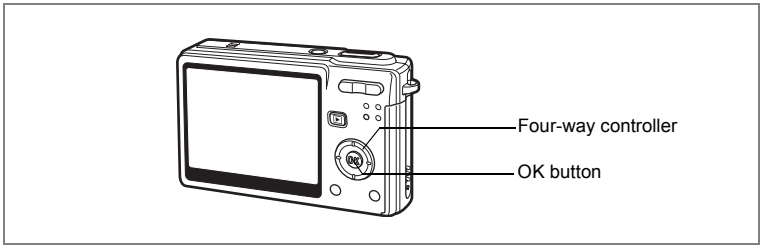


Editing Pictures with Brightness Filter

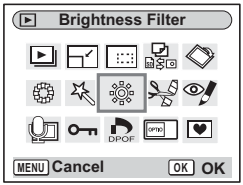
This function enables you to adjust the brightness of still pictures with the brightness filter.

1 **Use the four-way controller (◄►) in Playback mode to choose an image to edit.**

2 **Press the four-way controller (▼).**

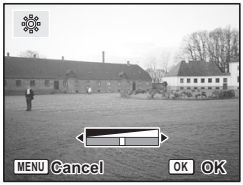
The Mode Palette appears.

3 **Use the four-way controller (▲▼◄►) to select ✲ (Brightness Filter).**



4 **Press the OK button.**

The brightness filter screen appears.



5 **Use the four-way controller (◄►) to adjust the brightness.**

Each time you press the four-way controller (►), the image becomes brighter step by step and each time you press the four-way controller (◄), the image becomes darker step by step. The brightness is selected between -2.0EV and +2.0EV by 1/3EV step.

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6 **Press the OK button.**

The overwrite confirmation screen appears.

7 **Use the four-way controller (▲▼) to select [Overwrite] or [Save as].**

If the image is protected, it is automatically saved as a new file.

8 **Press the OK button.**

The edited image is saved with the same number of recorded pixels and quality level as the original.

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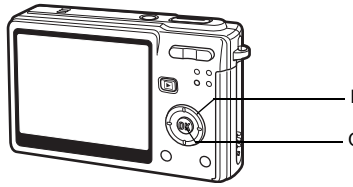


Editing Movies

You can select a frame from a recorded movie to save as a still picture or divide a movie into two.

1 **Use the four-way controller (◄►) in Playback mode to select a movie to edit.**

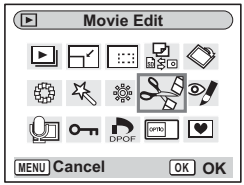
2 **Press the four-way controller (▼).**

The Mode Palette appears.

3 **Use the four-way controller (▲▼◄►) to select (Movie Edit).**

4 **Press the OK button.**

The Movie Edit screen appears. Choose the editing function that you want to use.



Saving a Frame from a Movie as a Still Picture

5 **Use the four-way controller (▲▼) to select [Save as Still Image].**

6 **Press the OK button.**

The screen for choosing a frame appears.

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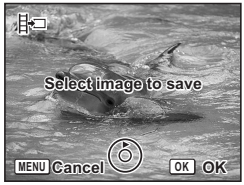
7 **Press the four-way controller (▲) to play back a movie. Press (▲) again to pause the movie at the point you want to save.**

Use the four-way controller (◄►) to advance one frame at a time when the movie is paused.



8 **Press the OK button.**

The selected frame is saved as a still picture.

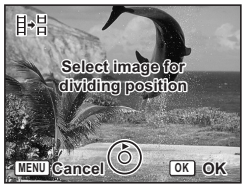
Dividing a Movie

5 **Select [Divide Movies] on the Movie Edit screen.**

6 **Press the OK button.**

The screen for choosing the dividing position appears.

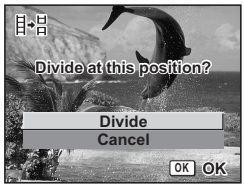
7 **Use the four-way controller (▲▼◄►) to determine the dividing position.**



- ▲ : Plays the movie / Pauses the movie / Resumes playback
- ▼ : Stops the movie
- ◄ : Reverses the movie frame by frame (available only during pause)
- ► : Advances the movie frame by frame (available only during pause)

8 **Press the OK button.**

The confirmation screen appears.



9 **Use the four-way controller (▲▼) to select [Divide].**

10 **Press the OK button.**

The movie is divided at the specified position and the two portions are saved as separate files.

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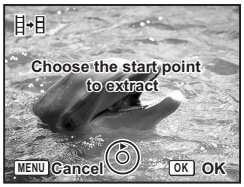
5 **Select [Extract] on the Movie Edit screen.**

6 **Press the OK button.**

The Extract screen appears.

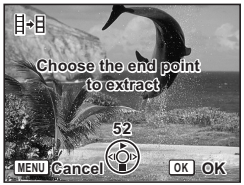
7 **Press the four-way controller (▲) to play back the movie and press it again to select the desired start point.**



The movie is paused. During pause, you can move forwards or backwards a frame by pressing the four-way controller (◄►).

8 **Press the OK button.**

9 **Press the four-way controller (▲) to play back the movie and press it again to select the desired end point.**



The movie is paused. During pause, you can move forwards or backwards a frame by pressing the four-way controller (◄►).

10 **Press the OK button.**

The extracted movie is saved.

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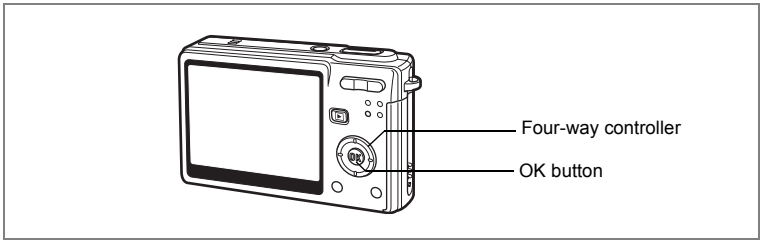


Red-eye Compensation

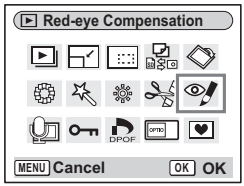
You can correct images where the flash has caused the subject to appear with red eyes.

1 Enter the Playback mode and press the four-way controller (◀▶) to choose the image you want to correct.

2 Press the four-way controller (▼).

The Mode Palette appears.

3 Use the four-way controller (▲▼◀▶) to select (Red-eye Compensation).



4 Press the OK button.

A confirmation dialog for overwriting the image appears.
If the “Cannot process correctly” error message is displayed, go to step 5 in “Manual compensation for red-eyes” (p.146).

5 Use the four-way controller (▲▼) to select [Overwrite] or [Save as].

When the image is protected, [Save as] will be selected automatically.

6 Press the OK button.

The edited image is saved with the same number of recorded pixels and quality level as the original.

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Caution

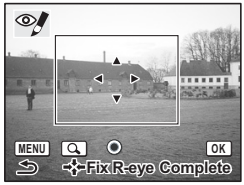
- The red-eye compensation function cannot be used on movies. An error message appears in Step 4.
- The red-eye compensation function can only be used with still pictures taken with this camera.

Manual compensation for red-eyes

Manually compensate for red-eyes in images if the red-eyes were not automatically identified.

5 Press the OK button.

"Select the area to compensate" message is displayed and the Specify compensation area screen appears.



6 Select the area for red-eye compensation

Four-way Controller : Moves the selected area in the specified direction.

Zoom Button : Reduces the selected area.

: Enlarges the selected area.

7 Press the Green Button

Red-eye compensation processing is done. If no message appears and the original screen appears, then processing was completed successfully. Go to step 8.

If the "Cannot process correctly" error message is displayed, redo the process from step 5.

8 Press the OK button.

The overwrite confirmation screen appears.

9 Use the four-way controller (▲▼) to select [Overwrite] or [Save as].

If the image is protected, it is automatically saved as a new file.

10 Press the OK button.

After red-eye compensation is done to an image it is saved at the original recorded pixels and quality level.

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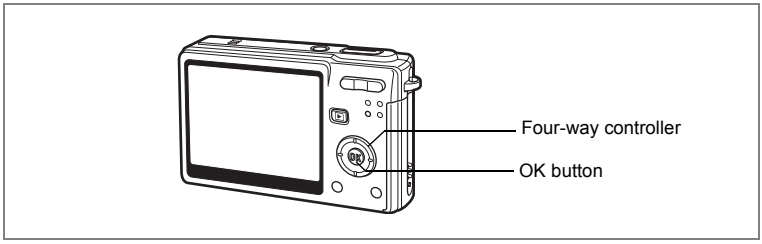
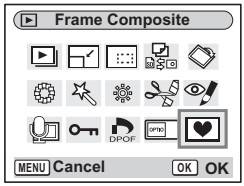


Adding a Frame (Frame Composite)

This function lets you add a decorative frame to still pictures. There are three frames already stored in the camera.

1 **Use the four-way controller (◄►) in Playback mode to choose the image to which you want to add a frame.**



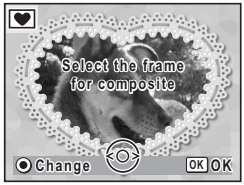
2 **Press the four-way controller (▼).**

The Mode Palette appears.

3 **Use the four-way controller (▲▼◄►) to select [♥] (Frame Composite).**

4 **Press the OK button.**

The frame selection screen appears.



5 **Use the four-way controller (◄►) to choose a frame.**

6 **Press the OK button.**

A confirmation dialog for overwriting the image appears.

7 **Use the four-way controller (▲▼) to select [Overwrite] or [Save as].**

If the image is protected, it is automatically saved as a new file.

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8 Press the OK button.

The edited image is saved with the recorded pixels of 3M.

Caution The frame composite function cannot be used on movies or images of size 2M and smaller. An error message appears in Step 4.

To Register a New Frame

To switch to the screen for registering a frame, press the Green button in Step 5. You can register frames which you have downloaded from the internet, etc. When you register a new frame, it replaces one of the existing frames in the built-in memory. Copy the downloaded frames to the SD memory Card before registering them in the built-in memory.

Caution When a new frame on the SD Memory Card is registered in the built-in memory, it replaces one of the existing frames in the built-in memory. The replaced frame is deleted from the built-in memory.

1 In the frame selection screen, choose the frame you want to remove and press the Green button.

A message appears and the frames on the SD Memory Card that you can register in the built-in memory appear.

2 Use the four-way controller (◄►) to choose the frame you want to register and press the OK button.

The frame is registered in the built-in memory instead of the frame selected in Step 1.

Visit the PENTAX website at the URL below to download new frames.

http://www.pentax.co.jp/english/support/digital/frame_02.html

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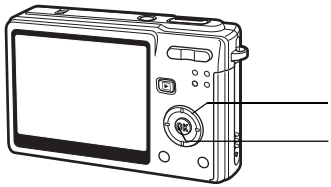
Copying Files



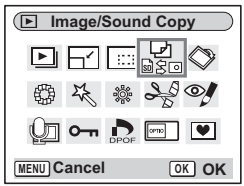
You can copy image and sound files from the built-in memory to the SD Memory Card and vice versa. This function can only be selected when a card has been inserted in the camera.
When files are copied from the built-in memory to the SD Memory Card, all the files are copied at once. When files are copied from the SD Memory Card to the built-in memory, the files are copied one at a time.

1 **Press the four-way controller (▼) in Playback mode.**

The Mode Palette appears.

2 **Use the four-way controller (▲▼◄►) to select (Image/Sound Copy).**

The Image/Sound Copy screen appears. Choose the copying method you want to use.



3 **Press the OK button.**

Caution Be sure to turn the camera off before inserting or removing the SD Memory Card.

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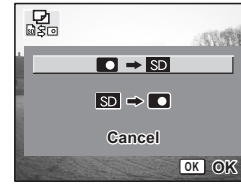
To Copy Files from the Built-in Memory to the SD Memory Card

4 **Use the four-way controller (▲▼) to select [➡ SD] and press the OK button.**

All the files are copied to the SD Memory Card.



To Copy Files from the SD Memory Card to the Built-in Memory

4 **Use the four-way controller (▲▼) to select [SD ➡]and press the OK button.**

5 **Use the four-way controller (◀▶) to select the file to copy.**

6 **Press the OK button.**

The selected file is copied to the built-in memory.

memo

- If the image has a voice memo, the sound file will be copied at the same time as the image.
- When a file is copied from the SD Memory Card to the built-in memory, it is assigned a new file name.

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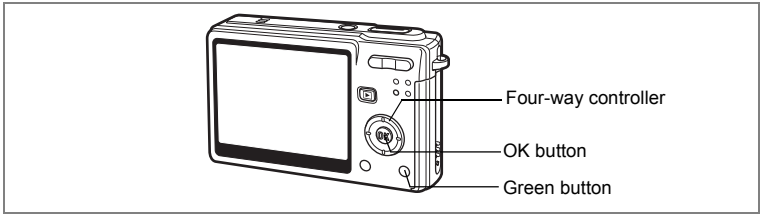


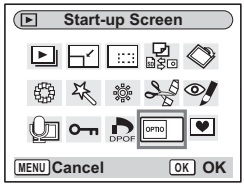
Setting Up the Start-up Screen

You can display an image recorded with the camera as the start-up screen when the camera is turned on.

1 Press the four-way controller (▼) in Playback mode.
The Mode Palette appears.

2 Use the four-way controller (▲▼◀▶) to choose [OPTIO] (Start-up Screen).

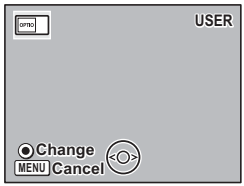
3 Press the OK button.
The screen for setting start-up screen appears. You can choose from five different types of start-up screens, including USER and off.



Setting Up the Start-up Screen Using a Captured Image (Go to Step 5 to select a start-up screen other than USER)

4 Press the Green button, while displaying [USER] in the upper-right corner of the screen, and use the four-way controller (◀▶) to choose an image for the start-up screen, and press the OK button.

5 Press the OK button.
The camera is ready to play back images.



memo

Once the start-up screen has been set, it will not be deleted even if the original image is deleted or the SD Memory Card or built-in memory is formatted. To delete the start-up screen, display the Image select screen. While the image you have selected as a start-up screen is on the screen ([USER] is indicated on the upper-right corner of the screen.), press the Green button.

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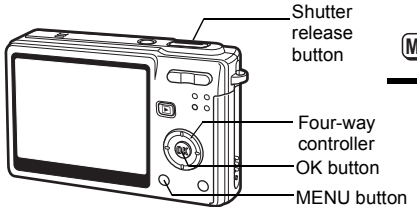
How to recall the [Set-up] menu



Formatting an SD Memory Card or the Built-in Memory

Formatting will delete all the data on the SD Memory Card if you are using a card, and all the data in the built-in memory if there is no SD Memory Card inserted.

Caution

- Do not remove the SD Memory Card while the card is being formatted as this may damage the card and render it unusable.
- SD Memory Cards formatted on a PC or device other than the camera cannot be used. Be sure to format the card with the camera.
- Formatting will delete protected data too. Be careful.

1 Select [Format] on the [Set-up] menu.

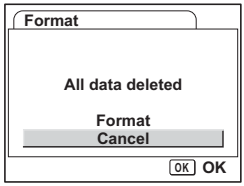
2 Press the four-way controller (▶).

The Format screen appears.

3 Press the four-way controller (▲) to select [Format].

4 Press the OK button.

Formatting starts. When formatting is completed, the camera is ready to take pictures.



memo

If formatting was performed in Playback mode, the camera returns to Playback mode after it was completed, then the [No image/sound] message appears.

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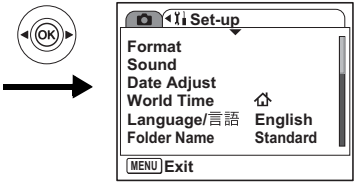


Changing the Sound Settings

You can adjust the playback volume and the volume of operation sounds, such as the start-up sound, shutter sound and operation sound. You can also change the operation sounds.

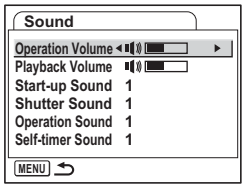
1 Select [Sound] on the [Set-up] menu.

2 Press the four-way controller (▶).

The Sound screen appears.

Changing the Volume

3 Use the four-way controller (◀▶) to change the operation volume.



4 Use the four-way controller (▼) to select [Playback Volume].

5 Use the four-way controller (◀▶) to change the volume of playback sounds.

6 Press the shutter release button halfway.

The camera is ready to take pictures.

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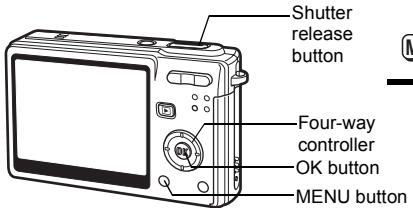
How to recall the [Set-up] menu



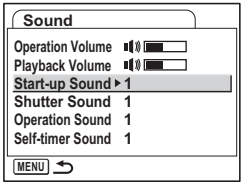
Changing the Sound

3 **Use the four-way controller (▲▼) to select [Start-up Sound].**

4 **Press the four-way controller (▶).**

The pull-down menu appears.

5 **Use the four-way controller (▲▼) to select [1], [2], [3], [Off] or [USER].**



6 **Change the [Shutter Sound], [Operation Sound], and [Self-timer Sound] in the same way.**

7 **Press the shutter release button halfway.**

The camera is ready to take pictures.

memo The Sound settings are saved when the camera is turned off.

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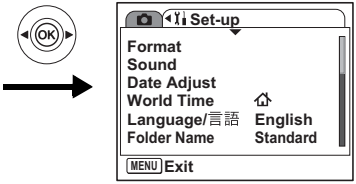


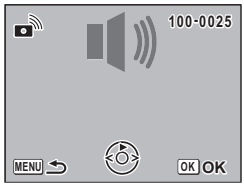
Setting the User Sound

You can set the first two seconds of your favorite recorded sound as the user sound and then use this as the start-up sound or shutter sound. The sound to be used is recorded with the camera. (☞ p.104)

1 Select [USER] in Step 5 on page 154.

2 Press the OK button.

The Playback screen appears if a sound that can be used as the user sound has been saved in the camera. [USER] appears for the sound set as the user sound.



3 Use the four-way controller (◄►) to choose a sound file.

Four-way controller (▲) Plays back the first two seconds of the sound file
Four-way controller (▼) Stops playback

4 Press the OK button.

The selected sound is set as the user sound for the start-up sound or shutter sound.

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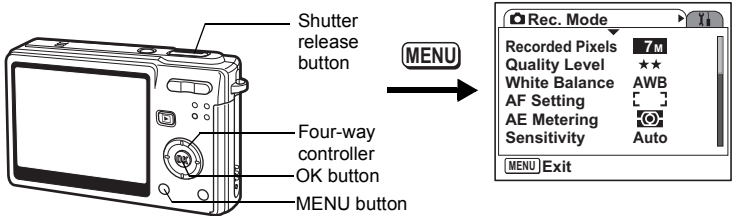
How to recall the [Set-up] menu



Changing the Date and Time

You can change the initial date and time settings. You can also set the style in which the date appears on the camera. Choose [mm/dd/yy], [dd/mm/yy] or [yy/mm/dd].

1 Select [Date Adjust] on the [Set-up] menu.

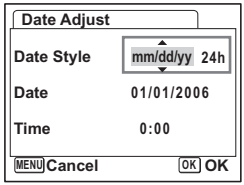
2 Press the four-way controller (▶).

The Date Adjust screen appears.

3 Press the four-way controller (▶).

The frame moves to [mm/dd/yy].

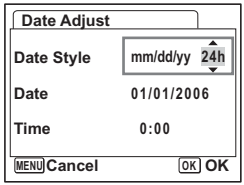
4 Use the four-way controller (▲▼) to choose the date display style.



5 Press the four-way controller (▶).

The frame moves to [24h].

6 Use the four-way controller (▲▼) to select [24h] (24-hour display) or [12h] (12-hour display).



7 Press the four-way controller (▶).

The frame moves to [Date Style].

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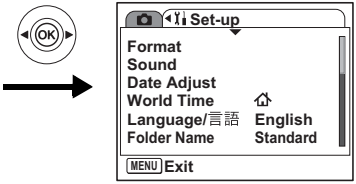
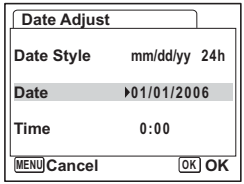


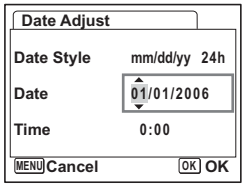
8 Press the four-way controller (▼).

The frame moves to [Date].



9 Press the four-way controller (▶).

The frame moves to month.



10 Use the four-way controller (▲▼) to change the month.

Change the day and year in the same manner.

Next, change the time.

If you select [12h] in Step 6, the setting switches between am and pm corresponding to the time.

11 Press the OK button.

The settings are confirmed.

12 Press the shutter release button halfway.

The camera is ready to take pictures.

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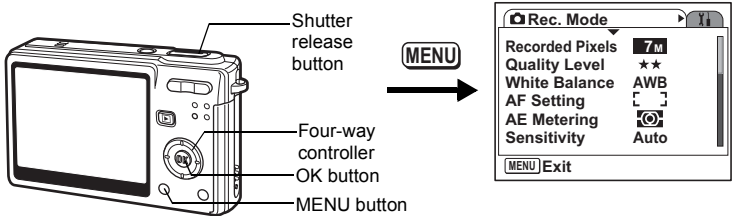
How to recall the [Set-up] menu



Setting the World Time

The date and time selected in “Initial Settings (Setting the Display Language and the Date and Time)” (p.28) serve as the Home Time setting.

You can display the time in a city other than the Home Time city (World Time). This is useful when taking pictures abroad.

1 Select [World Time] on the [Set-up] menu.

2 Press the four-way controller (▶).

The World Time screen appears.

3 Use the four-way controller (◀▶) to select ✈ (Destination) or ⌂ (Hometown).

✈ : Displays the time in the city selected as the Destination city

⌂ : Displays the time in the city selected as the Hometown city

4 Press the four-way controller (▼) to select ✈ (Destination).

5 Press the four-way controller (▶).

The Destination screen appears. The city that is currently selected blinks on the map.

6 Use the four-way controller (◀▶) to change the Destination city.

The location of the destination and the time difference between the hometown and the destination appear.

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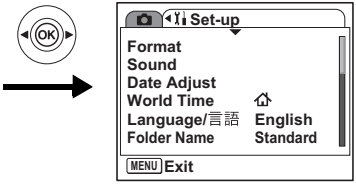

7 Press the four-way controller (▼) to select [DST].

8 Use the four-way controller (◄►) to select ☑ (On) or □ (Off).

Select ☑ (On) if the Destination city uses daylight saving time.

9 Press the OK button.

The World Time setting is saved.

10 Press the four-way controller (▼) to select ⌂ (Hometown).

Set the location and the current time in the same manner as Steps 5 to 9.

11 Press the shutter release button halfway.

The camera is ready to take pictures.

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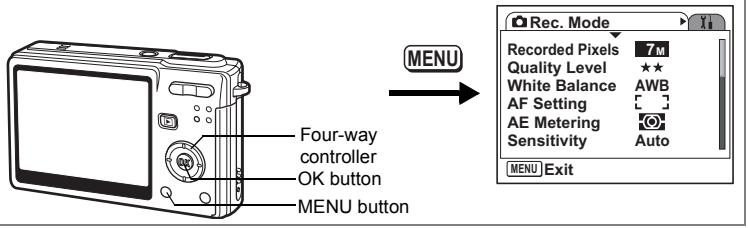
How to recall the [Set-up] menu



Changing the Display Language

You can change the language in which the menus, error messages, etc. are displayed.
You can choose from English, French, German, Spanish, Portuguese, Italian, Swedish, Dutch, Russian, Thai, Korean, Chinese (traditional and simplified), and Japanese.

1. **Select [Language/言語] on the [Set-up] menu.**
2. **Press the four-way controller (▶).**
3. **Use the four-way controller (▲▼◀▶) to choose the language.**
4. **Press the OK button.**
5. **Press the MENU button.**

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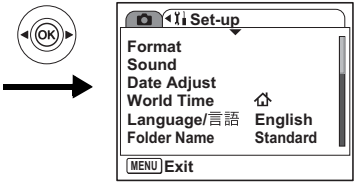


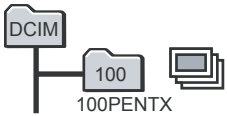
Changing the Image Folder Name

You can change the image folder name from the standard name to the date that pictures were taken. When the name is changed to the date, pictures are saved in separate folders by the date they were taken.

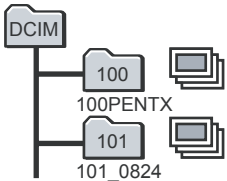
Folder Name

Standard	xxxPENTX (where xxx is the 3-digit folder number)
Date	xxx_mmdd (3-digit folder number_month day)

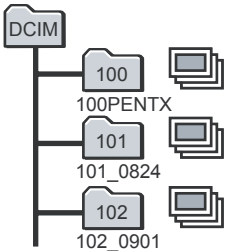
Picture taken with standard folder name (Example: August 24)



Folder name changed to date setting (Example: August 24)



Next time a picture is taken (Example: September 1)



1 Select [Folder Name] on the [Set-up] menu.

2 Press the four-way controller (▶).
A pull-down menu appears.

3 Use the four-way controller (▲▼) to select [Standard] or [Date].

4 Press the OK button.
The Folder Name setting is saved.

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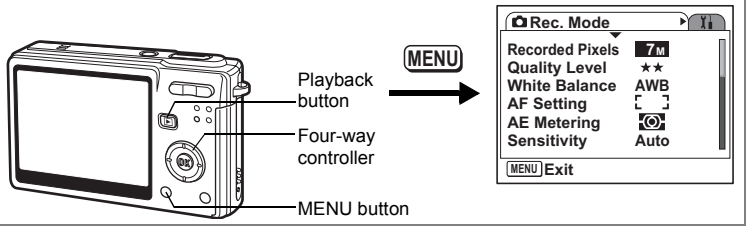
How to recall the [Set-up] menu



Changing the USB Connection Mode

You can change the USB Connection mode depending on whether the USB cable is to be connected to a printer (PictBridge) or a computer.

1 Select [USB Connection] on the [Set-up] menu.

2 Press the four-way controller (▶).

The pull-down menu appears.

3 Use the four-way controller (▲▼) to select [PC] or [PictBridge].

4 Press the ▶ Playback button.

The camera is ready to play back images.

Caution: Do not connect the printer while “PC” is set. Also, do not connect the computer while “PictBridge” is set.

Changing the Video Output Format

You can select the output format (NTSC or PAL) for taking or playing back images on a TV.

1 Select [Video Out] on the [Set-up] menu.

2 Press the four-way controller (▶).

The pull-down menu appears.

3 Use the four-way controller (▲▼) to select [NTSC] or [PAL].

Choose the video output format to match the output format of the TV.

4 Press the ▶ Playback button.

The camera is ready to play back images.

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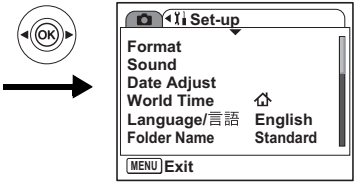

Adjusting the Brightness of the LCD Monitor

You can adjust the brightness of the LCD monitor by seven levels.

1 Select [Brightness Level] on the [Set-up] menu.

2 Use the four-way controller (◀▶) to adjust the brightness.

Moving the slider leftwards makes the LCD monitor darker and moving rightwards makes it brighter.

3 Press the ▶ Playback button.

The camera is ready to play back images.

Setting Power Saving

By setting the LCD monitor to dim automatically when you leave the camera without performing any operations for a certain period, you can lessen battery drain. When Power Saving takes effect and the LCD monitor dims, press any button to return to the ordinary brightness.

1 Select [Power Saving] on the [Set-up] menu.

2 Press the four-way controller (▶).

The pull-down menu appears.

3 Use the four-way controller (▲▼) to select [2 min], [1 min], [30 sec], [15 sec], [5 sec] or [Off].

4 Press the ▶ Playback button.

The camera is ready to play back images.

memo

The Power Saving function will not work in the following conditions.

- In Playback mode
- When the USB cable is connected
- While taking movies

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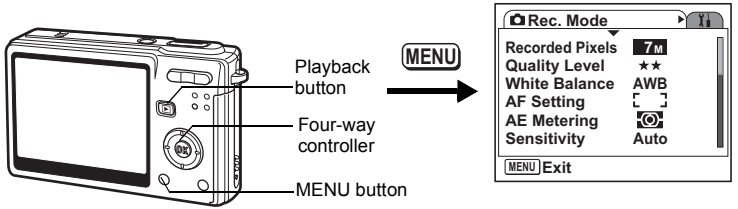
How to recall the [Set-up] menu



Setting Auto Power Off

You can set the camera to turn off automatically when no operation is performed for a fixed time.

1 **Select [Auto Power Off] on the [Set-up] menu.**

2 **Press the four-way controller (▶).**

The pull-down menu appears.

3 **Use the four-way controller (▲▼) to select [5 min], [3 min] or [Off].**

4 **Press the ▶ Playback button.**

The camera is ready to play back images.

memo The camera does not turn off automatically while recording a movie or during a slide show if the camera is connected via a USB cable.

Setting the Guide Display

You can display the information on the mode you are currently using and the functions that are assigned to the Green button, etc., right after starting up the camera in Capture mode or switching to the Capture mode from other modes.

1 **Select [Guide Display] on the [Set-up] menu.**

2 **Use the four-way controller (◀▶) to select ☑ (On)/□ (Off).**

3 **Press the ▶ Playback button.**

The camera is ready to play back images.

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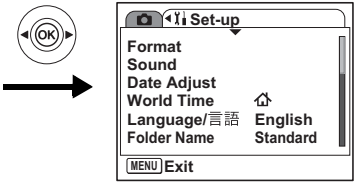


Resetting to Default Settings

You can return all the settings other than the date and time, world time, **Language/言語** , and video out to the default settings.

1 **Select [Reset] on the [Set-up] menu.**

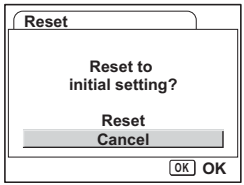
2 **Press the four-way controller (▶).**

The Reset screen appears.

3 **Use the four-way controller (▲) to select [Reset].**

4 **Press the OK button.**

The settings return to the defaults and the camera is ready to take or play back images.



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List of City

This is a list of cities which you can choose for the World Time.

Region	City
North America	Honolulu
	Anchorage
	Vancouver
	San Francisco
	Los Angeles
	Calgary
	Denver
	Chicago
	Miami
	Toronto
	New York
	Halifax
Central and South America	Mexico City
	Lima
	Santiago
	Caracas
	Buenos Aires
	Sao Paulo
	Rio de Janeiro
Europe	Lisbon
	Madrid
	London
	Paris
	Amsterdam
	Milan
	Rome
	Berlin
	Stockholm
	Athens
	Helsinki
	Moscow
Africa/West Asia	Dakar
	Algiers
	Johannesburg
	Istanbul
	Cairo
	Jerusalem

Region	City
Africa/West Asia	Nairobi
	Jeddah
	Tehran
	Dubai
	Karachi
	Kabul
	Male
	Delhi
	Colombo
	Kathmandu
	Dacca
East Asia	Yangon
	Bangkok
	Kuala Lumpur
	Vientiane
	Singapore
	Phnom Penh
	Ho chi Minh
	Jakarta
	Hong Kong
	Beijing
	Shanghai
	Manila
	Taipei
	Seoul
	Tokyo
	Guam
Oceania	Perth
	Adelaide
	Sydney
	Noumea
	Wellington
	Auckland
	Pago Pago

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Default Settings

The table below lists the factory default settings.

Last Memory Setting

Yes : The current setting (last memory) is saved when the camera is turned off.

No : The setting returns to the default setting when the camera is turned off.

∗ : The setting depends on the Memory setting (☞p.102).

Reset Setting

Yes : The setting returns to the default setting with the Reset function (☞p.165).

No : The setting is saved even after reset.

● **[Rec. Mode] Menu Items**

Item		Default Setting	Last Memory Setting	Reset Setting	Page
Recorded Pixels		7M	Yes	Yes	p.80
Quality Level		★★ (Better)	Yes	Yes	p.82
White Balance		**AWB** (Auto)	∗	Yes	p.84
AF Setting	Focusing Area	[ ] (Multiple)	Yes	Yes	p.86
	Focus Limiter	On	Yes	Yes	p.87
	Aux. AF Light	On	Yes	Yes	p.88
AE Metering		(Multi-segment)	∗	Yes	p.89
Sensitivity		Auto	∗	Yes	p.90
EV Compensation		±0.0	∗	Yes	p.91
Movie	Recorded Pixels	640 (640x480)	Yes	Yes	p.92
	Quality Level	★★★(S. Fine)	Yes	Yes	p.93
	Movie anti-shake	On	Yes	Yes	p.94
Digital Zoom		On	∗	Yes	p.74
Instant Review		0.5 sec	Yes	Yes	p.95

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Item		Default Setting	Last Memory Setting	Reset Setting	Page
Memory	Flash Mode	On	Yes	Yes	p.78
	Drive Mode	Off	Yes	Yes	p.67 to p.72
	Focus Mode	Off	Yes	Yes	p.75
	Zoom Position	Off	Yes	Yes	p.73
	MF Position	Off	Yes	Yes	p.76
	White Balance	Off	Yes	Yes	p.84
	AE Metering	Off	Yes	Yes	p.89
	Sensitivity	Off	Yes	Yes	p.90
	EV Compensation	Off	Yes	Yes	p.91
	Digital Zoom	On	Yes	Yes	p.74
	DISPLAY	Off	Yes	Yes	p.50
	File #	On	Yes	Yes	-
Green Button		Green Mode	Yes	Yes	p.96
Sharpness		Normal	Yes	Yes	p.99
Saturation		Normal	Yes	Yes	p.100
Contrast		Normal	Yes	Yes	p.101

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● **[Set-up] Menu**

Item		Default Setting	Last Memory Setting	Reset Setting	Page
Format	-	-	-	-	p.152
Sound	Operation Volume	3	Yes	Yes	p.153
	Playback Volume	3	Yes	Yes	
	Start-up Sound	1	Yes	Yes	
	Shutter Sound	1	Yes	Yes	
	Operation Sound	1	Yes	Yes	
	Self-timer Sound	1	Yes	Yes	
Date Adjust	Date Style	According to initial setting	Yes	No	p.156
World Time	Select time	Hometown	Yes	No	p.158
	Destination (City)	Same as Hometown	Yes	No	
	Destination (DST)	Same as Hometown	Yes	No	
	Hometown (City)	According to initial setting	Yes	No	
	Hometown (DST)	According to initial setting	Yes	No	
Language/言語		According to initial setting	Yes	No	p.28
Folder Name		Standard	Yes	Yes	p.161
USB Connection		PC	Yes	Yes	p.162
Video Out		According to initial setting	Yes	No	p.162
Brightness Level		Standard	Yes	Yes	p.163
Power Saving		5 sec	Yes	Yes	p.163
Quick Zoom		Off	Yes	Yes	p.110
Auto Power Off		3 min	Yes	Yes	p.164
Guide Display		On	Yes	Yes	p.164
Reset		-	-	-	p.165

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● Playback Mode Palette Items

Item			Default Setting	Last Memory Setting	Reset Setting	Page
	Slideshow	Interval	3 sec	Yes	Yes	p.114
		Screen Effect	Wipe	Yes	Yes	
		Sound Effect	On	Yes	Yes	
	Resize		According to the taken picture	No	-	p.132
	Cropping		-	No	-	p.134
	Image/Sound Copy		Cancel	No	-	p.149
	Image Rotation		Normal	No	No	p.135
	Color Filter		B&W	No	-	p.136
	Digital Filter		SOFT	No	-	p.138
	Brightness Filter		0	No	-	p.140
	Movie Edit		Save as Still Image	No	-	p.142
	Red-eye Compensation		-	-	-	p.145
	Voice Memo		-	-	-	p.107
	Protect		Select image/ sound	Yes	No	p.121
	DPOF		Select image	Yes	No	p.125
	Start-up Screen		According to the taken picture	Yes	Yes	p.151
	Frame Composite		-	Yes	Yes	p.147

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● Capture Mode and Functions

Yes: Available No: Not available

		Flash	Manual Focus, Infinity, Macro, Pan Focus	Self-timer	Continuous Shooting	Remote Control	Digital Zoom	LCD Off
Capture Mode	Auto Picture	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Program							
	Night Scene							
	Landscape							
	Flower							
	Portrait	Yes	Yes	Yes	Yes	Yes	Yes	No
	Kids							
	Surf & Snow	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Blur reduction							
	Sport							
	Pet							
	Text							
	Food							
	Frame Composite (*1)	Yes	Yes	Yes	No	Yes	Yes	No
	Movie	No (*2)	Yes	Yes	No	No	No (*3)	Yes
	Voice Recording	-	-	-	-	-	-	Yes

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			Flash	Manual Focus, Infinity, Macro, Pan Focus	Self-timer	Continuous Shooting	Remote Control	Digital Zoom	LCD Off
Others		Digital Zoom	Yes	Yes	Yes	Yes	Yes	-	Yes
		Macro Mode	Yes	-	Yes	Yes	Yes	Yes	Yes
		Infinity	No (*2)	-	Yes	Yes	Yes	Yes	Yes
	MF	Manual Focus	Yes	-	Yes	Yes	Yes	Yes	No
		Continuous Shooting	No (*2)	Yes	-	-	-	Yes	Yes

*1: If you enter this mode when LCD is set to Off, the LCD monitor returns to normal display.
*2: Flash is fixed to off.
*3: Available only when Movie anti-shake is set to Off.

● Capture Mode and Default Setting of Each Function

Capture Mode		Flash Mode	Recorded Pixels	White Balance	Focusing Area	Focus Limiter	Aux. AF light	AE Metering	Sensitivity	Sharpness	Saturation	Contrast
AUTO PICT	Auto Picture			⑤				⑩		⑬	⑬	⑬
P	Program											
	Night Scene											
	Movie	①			⑥	⑧	⑧	⑪	⑫			
	Voice Recording											
	Landscape			⑤			⑨	⑩		⑬	⑬	⑬
	Flower			⑤		⑨		⑩		⑬	⑬	⑬
	Portrait			⑤				⑩		⑬	⑬	⑬
	Kids			⑤	⑦			⑩		⑬	⑬	⑬
	Surf & Snow			⑤				⑩		⑬	⑬	⑬
	Blur reduction		③									
	Sport	②		⑤	⑦	⑨		⑩		⑬	⑬	⑬
	Pet	②		⑤	⑦	⑨		⑩		⑬	⑬	⑬

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Capture Mode		Flash Mode	Recorded Pixels	White Balance	Focusing Area	Focus Limiter	Aux. AF light	AE Metering	Sensitivity	Sharpness	Saturation	Contrast
A	Text			⑤		⑨		⑩		⑬	⑬	⑬
	Food			⑤		⑨		⑩		⑬	⑬	⑬
	Frame Composite		④									

* Blank means no changes of settings.
①: Fixed to Flash Off
②: Set to Flash Off (Setting can be changed)
③: Fixed to 4M (2304×1728)
④: Fixed to 3M (2048×1536)
⑤: Fixed to AWB
⑥: Fixed to Spot
⑦: Set to the automatic tracking AF
⑧: Fixed to Off
⑨: Set to Off (Setting can be changed)
⑩: Fixed to multi-segment metering
⑪: Fixed to center-weighted
⑫: Fixed to Auto
⑬: Fixed to normal

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Optional Accessories

A number of dedicated accessories are available for this camera.

USB cable I-USB17 (∗)

AV cable I-AVC7 (∗)

Camera case O-CC56

Strap O-ST8

Strap O-ST20 (∗)

Leather Strap O-ST24

Sports Strap O-ST30

Remote control unit E (zoom function)

Remote control unit F

Rechargeable lithium-ion battery D-LI8 (∗)

Battery charger kit K-BC8 (∗)

AC adapter kit K-AC8

Battery charger kit K-BC8 and AC adapter kit K-AC8 include AC plug cord D-CO2 (∗). The ending of the AC plug cord name differs depending on the country.

Products marked with an asterisk (∗) are the same as those supplied with the camera.

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Messages

Messages such as the following may appear on the LCD monitor during camera operation.

Compression error	Compression of the image you captured has failed. Change the quality/size and try again.
No image/sound	There are no images/sounds on the SD Memory Card or in the built-in memory.
Memory card full	The SD Memory Card or the built-in memory is full and no more images can be saved. Insert a new SD Memory Card or delete unwanted images. (p.23, 116) Change the quality/size and try again. (p.132)
Built-in memory full	
Image/sound cannot be created	You can only record up to 5000 files due to the specifications of the camera, even when using a large volume SD Memory Card. Delete unwanted files to continue recording.
Memory card error	Shooting and playback are impossible due to a problem with the SD Memory Card. You may be able to play back the images or sounds on a PC.
Card not formatted	The SD Memory Card you have inserted is unformatted or has been formatted on a PC or other device and is not compatible with this camera. (p.152)
Card locked	The SD Memory Card is write-protected. Only menu operation and mode change are possible.
Data being recorded	This is displayed when you switch to Playback mode while the image is being saved or protect setting or DPOF settings are being saved. The message disappears when saving of an image or setting is completed.
Data being processed	The image is being recorded on the SD Memory Card or in the built-in memory.
	The protect setting or DPOF settings is being changed.
	The movie is being recorded.
	The image is being processed with digital filter.
	The movie is being edited.
	The SD Memory Card or built-in memory is being formatted.
Deleting	The image or sound is being deleted.
Camera cannot play this image and sound	You are trying to play back an image or sound in a format not supported by this camera. You may be able to play it back on another brand of camera or PC.
Battery depleted	The battery is exhausted. Recharge the battery or replace with charged battery. (p.14)

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Image folder could not be created	The largest folder number has been used and the largest file number has been assigned to an image and no more images can be saved. Insert a new SD Memory Card or format the SD Memory Card or built-in memory. (p. 23, 152)
Protected	The image or sound you are trying to delete is protected.
This image/sound cannot be processed	You are trying to resize, crop, protect an image, or you are trying to set an image for DPOF, or you are trying to edit an image with a digital filter or edit a movie while the image or movie cannot be processed with these functions.
No image to be processed	There is no file that can be processed with the Playback Mode Palette.

Messages such as the following may appear on the LCD monitor when using the PictBridge function.

No paper in the printer	There is no paper in the printer.
No ink in the printer	There is no ink in the printer.
Printer error	An error message has been sent from the printer.
Data error	A data error message has been sent from the printer.
Paper stuck in the printer	The paper in the printer has jammed.

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Problem	Cause	Remedy
Camera will not turn on	Battery is not installed	Check battery is installed. If not, install battery.
	Battery is installed incorrectly	Check orientation of battery. Reinsert battery, making sure that the battery matches the label inside the battery compartment. (p.14)
	Battery power is low	Insert a charged battery or use the AC adapter.
No image on the LCD monitor	LCD monitor is set to Off	Press OK/Display button to turn LCD monitor on.
	Image is displayed but is hard to see	Image on LCD monitor may be hard to see when taking pictures outside in sunlight.
Shutter will not release	Flash is charging	When flash icon blinks red on the LCD monitor, flash is charging and no pictures can be taken. Flash icon lights red when charging is completed.
	No available space on SD Memory Card or in built-in memory	Insert SD Memory Card with available space or delete unwanted images. (p.23, 116)
	Recording	Wait until recording is finished.
	The number of image, movie, and sound files recorded on the SD Memory Card has reached 5000.	Change SD Memory Cards or delete unwanted files.
Picture is dark	Subject is too far away in a dark environment, such as a night scene	Picture becomes dark if subject is too far away. Take picture within range of flash.
	Background is dark	When taking a picture of a person against a dark background, such as a night scene, the background may appear dark if the flash does not reach it, even with the correct exposure. Set to mode to ensure both person and background are clear. (p.50, 61)

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Problem	Cause	Remedy
Subject is not in focus	Subject difficult to focus on	Subjects difficult to focus on using autofocus: objects with little contrast (blue sky, white walls, etc.), dark objects, finely patterned objects, fast-moving objects, scenery through window or net, etc. Lock focus on another object located at same distance (press shutter release button halfway), then aim at target and press shutter release button fully, or use Manual Focus mode.
	Subject is not in focusing area	Position subject in focus frame (focusing area) in middle of LCD monitor. If the subject is outside the focusing area, aim the camera at the subject and lock the focus (press shutter release button halfway), then compose picture and press the shutter release button fully.
	Subject is too close	Set focus mode on (Macro). (p.75)
	Focus mode is set on (Macro)	Normal pictures will be out of focus if taken with focus mode set on (Macro).
Flash does not discharge	Flash mode is set to Off	Set to Auto or . (p.78)
	The Capture mode is set to (Movie) mode, Continuous Shooting, Infinity mode, (Sport) mode or (Pet) mode.	Flash will not discharge in these modes. You can cancel the non-flash setting for (Sport) mode and (Pet) mode.
The USB Connection with a personal computer does not function properly.	The USB Connection setting of the camera is set to PictBridge.	Set the USB Connection setting to PC. (p.162)
The USB Connection with a printer does not function properly.	The USB Connection setting of the camera is set to PC.	Set the USB Connection setting to PictBridge. (p.162)

Very occasionally, static electricity may cause malfunction of the camera. In this case, remove the battery and install it again. If the camera works properly, the camera is in its normal condition and you can continue to use it.

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Main Specifications

Camera

Type	Fully automatic compact digital still camera with built-in zoom lens	
Effective Pixels	7.0 megapixels	
Sensor	7.38 megapixels (total pixels), 1/2.5-inch interline transfer CCD with a primary color filter	
Recorded Pixels	Still Picture	7M (3072×2304), 5M (2592×1944), 4M (2304×1728), 3M (2048×1536), 2M (1600×1200), 1024 (1024×768), 640 (640×480)
	Movie	640 (640×480), 320 (320×240)
Sensitivity	Auto, manual (50/100/200/400 (/800/1600 Blur reduction mode): Standard Output Sensitivity)	
File Format	Still Picture	JPEG (Exif2.2), DCF, DPOF, PRINT Image Matching III
	Movie	AVI (DivX® MPEG-4 DivX), approx. 30 fps with sound, Movie anti-shake (27 fps image signals recorded at 30 fps)
	Sound	WAV (PCM system), monaural, max. recording time approx. 4 hours 19 min. 59 sec. (when using a 256 MB SD Memory Card)
Quality Level	"Best", "Better", "Good"	
Storage Medium	Built-in memory (approx. 23 MB), SD Memory Card, SDHC Memory Card	

Image Storage Capacity and Recording Time (When using a 256 MB SD Memory Card)
Still Pictures

Quality Level / Recorded Pixels	Best ★★★	Better ★★	Good ★	Sound
7M	104	151	210	4 hr. 19 min. 59 sec.
5M	147	213	296	
4M	187	270	375	
3M	223	323	448	
2M	313	453	628	
1024	571	826	1144	
640	1048	1515	2098	

Movie

Quality Level / Recorded Pixels	★★★ S.Fine	★★ Fine	★ Economy
640 (640×480)	11 min. 35 sec.	14 min. 30 sec.	17 min. 25 sec.
320 (320×240)	44 min. 47 sec.	55 min. 39 sec.	64 min. 10 sec.

* The above table indicates the approximate number of images and recording time. The number of images and recording time may vary depending on a SD Memory Card and subject.

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White Balance	Auto, Daylight, Shade, Tungsten Light, Fluorescent Light, Manual	
Lens	Focal Length	6.2 mm - 18.6 mm (equivalent to 37.5 mm - 112.5 mm in 35 mm format)
	Maximum Aperture	f/2.7 - f/5.2
	Lens Composition	6 elements in 5 groups (two dual-sided aspherical elements)
	Zoom Type	Electrically driven
	Picture Range	Approx. 148 mm × 111 mm (screen is filled) (Macro mode)
	Lens Cover	Electrically driven
Digital Zoom	Capture Mode	Max 4× (combines with 3× optical zoom to give zoom magnification equivalent to 12×)
LCD Monitor	2.5-inch TFT color LCD with approx. 232,000 pixels monitor (with backlight), Beau-Reflective type, frame coverage approx. 100%	
Playback Functions	Single-frame, 9 frame index, enlargement (max. 8×, scrollable), movie playback, sound playback, histogram display, Select & Delete Playback Mode Palette (Slideshow, Resize, Cropping, Image/Sound Copy, Image Rotation display, Color Filter, Digital Filter, Brightness Filter, Movie Edit, Red-eye Compensation, Voice Memo, Protect, DPOF, Start-up Screen, Frame Composite)	
Color filter	B&W, Sepia, Color filter (Bar display, Eight colors), B&W + Red, B&W + Green and B&W + Blue.	
Digital filter	Soft, Illustration, Special Effect 1, Special Effect 2, Slim	
Brightness filter	Brightness filter	
Focusing System	Type	TTL contrast detection system by sensor, 5-point multiple/spot selection, auxiliary AF light, Focus Lock (by half-pressing shutter release button), Automatic tracking AF is possible
	Still Picture Focusing Range (from lens front)	Normal: Approx. 0.4 m - ∞ (full zoom range) Macro: Approx. 0.15 m - Approx. 0.5 m (full wide-angle only) Infinity: ∞ (full zoom range) Pan focus: Approx. 1.3 m - ∞ (full wide-angle), Approx. 5.3 m - ∞ (full telephoto) Manual Focus: Approx. 0.15 m - ∞ (full wide-angle), Approx. 0.4 m - ∞ (except full wide-angle)
	Movie Focusing Range (from lens front)	Normal: Approx. 0.15 m - ∞ (full wide-angle), Approx. 0.4 m - ∞ (except full wide-angle) Macro: Approx. 0.15 m - 0.5 m (full wide-angle only) Infinity: ∞ (full zoom range) Pan focus: Approx. 0.5 m - ∞ (full wide-angle), Approx. 2.1 m - ∞ (full telephoto) Manual Focus: Approx. 0.15 m - ∞ (full wide-angle), Approx. 0.4 m - ∞ (except full wide-angle)
Exposure Mechanism	AE Metering	TTL metering by sensor (multi-segment, center-weighted, spot)
	Capture Modes	Green, Mode Palette (Auto Picture, Program, Night Scene, Movie, Voice Recording, Landscape, Flower, Portrait, Kids, Sport, Surf & Snow, Blur reduction, Food, Pet, Text, Frame Composite)
	EV Compensation	±2 EV (can be set in 1/3 EV steps)
	Movie	Recording time approx. 1 sec. until memory card is full
Shutter	Type	Electronic/mechanical shutter
	Speed	Approx. 1/2000 sec. - 4 sec.

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Flash	Type	Auto flash with red-eye reduction function
	Flash Modes	Auto, Flash Off, Flash On, Auto + Red-eye , Flash On + Red-eye, Soft Flash
	Effective Range	Wide: Approx. 0.15 m - Approx. 5.1 m (at the standard output sensitivity of Auto) Tele: Approx. 0.4 m - Approx. 2.7 m (at the standard output sensitivity of Auto)
Drive Modes	Single-frame, Continuous, 10-sec. Self-timer. 2-sec. Self-timer, 3-sec. Remote Control, Instant Remote Control	
Self-timer	Electronic control type, delay time: approx. 10 sec., 2 sec.	
Time Function	World Time setting for 71 cities (28 time zones)	
Power Supply	Rechargeable lithium-ion battery D-LI8, AC adapter (optional)	
Battery Life	Approx. 180 images	(at 23°C with LCD monitor on, flash fired for 50% of shots and using a rechargeable lithium ion battery D-LI8) * The battery life is based on the CIPA standard measurement, but it may vary with the conditions under which the camera is used.
In/Out Port	USB/AV terminal (PC communication type USB 2.0, high-speed-compatible), external power supply terminal	
Video Output Format	NTSC, PAL	
Size	85.5 (W) × 53.5 (H) × 19.5 (D) mm (excluding operating members and projections)	
Weight	100 g (excluding battery and SD Memory Card)	
Weight When Shooting	120 g (including battery and SD Memory Card)	
Accessories	Rechargeable lithium-ion battery, battery charger, AC plug cord, USB cable, software (CD-ROM), AV cable, strap, operating manual	

Power Supply

	Battery Charger D-BC8	AC Adapter D-AC8 (optional)
Rated input	AC100-240V (50Hz/60Hz)	AC100-240V (50Hz/60Hz)
Rated output	DC 4.2 V / 630 mA	DC 4.5 V/2 A
External dimensions	88 × 46 × 26.5 (mm)	90 × 43.5 × 26.5 (mm)
Weight	61 g	122 g

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WARRANTY POLICY

All PENTAX cameras purchased through authorized bona fide photographic distribution channels are guaranteed against defects of material or workmanship for a period of twelve months from date of purchase. Service will be rendered, and defective parts will be replaced without cost to you within that period, provided the equipment does not show evidence of impact, sand or liquid damage, mishandling, tampering, battery or chemical corrosion, operation contrary to operating instructions, or modification by an unauthorized repair shop. The manufacturer or its authorized representatives shall not be liable for any repair or alterations except those made with its written consent and shall not be liable for damages from delay or loss of use or from other indirect or consequential damages of any kind, whether caused by defective material or workmanship or otherwise; and it is expressly agreed that the liability of the manufacturer or its representatives under all guarantees or warranties, whether expressed or implied, is strictly limited to the replacement of parts as hereinbefore provided. No refunds will be made on repairs by non-authorized PENTAX service facilities.

Procedure During 12-month Warranty Period
Any PENTAX which proves defective during the 12-month warranty period should be returned to the dealer from whom you purchased the equipment or to the manufacturer. If there is no representative of the manufacturer in your country, send the equipment to the manufacturer, with postage prepaid. In this case, it will take a considerable length of time before the equipment can be returned to you owing to the complicated customs procedures required. If the equipment is covered by warranty, repairs will be made and parts replaced free of charge, and the equipment will be returned to you upon completion of servicing. If the equipment is not covered by warranty, regular charges of the manufacturer or of its representatives will apply. Shipping charges are to be borne by the owner. If your PENTAX was purchased outside of the country where you wish to have it serviced during the warranty period, regular handling and servicing fees may be charged by the manufacturer's representatives in that country. Notwithstanding this, your PENTAX returned to the manufacturer will be serviced free of charge according to this procedure and warranty policy. In any case, however, shipping charges and customs clearance fees to be borne by the sender. To prove the date of your purchase when required, please keep the receipt or bills covering the purchase of your equipment for at least a year. Before sending your equipment for servicing, please make sure that you are sending it to the manufacturer's authorized representatives or their approved repair shops, unless you are sending it directly to the manufacturer. Always obtain a quotation for the service charge, and only after you accept the quoted service charge, instruct the service station to proceed with the servicing.

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- **This warranty policy does not affect the customer's statutory rights.**
- **The local warranty policies available from PENTAX distributors in some countries can supersede this warranty policy. Therefore, we recommend that you review the warranty card supplied with your product at the time of purchase, or contact the PENTAX distributor in your country for more information and to receive a copy of the warranty policy.**

CE The CE Mark is a Directive conformity mark of the European Union.

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For customers in USA
STATEMENT OF FCC COMPLIANCE
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
Changes or modifications not approved by the party responsible for compliance could void the user's authority to operate the equipment.
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.
These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
  Increase the separation between the equipment and receiver.
  Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

* Consult the dealer or an experienced radio/TV technician for help.

For customers in Canada
This Class B digital apparatus meets all requirements of the Canadian Interference - Causing Equipment Regulations.

Pour les utilisateurs au Canada
Cet apareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

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Declaration of Conformity

According to 47CFR, Parts 2 and 15 for

Class B Personal Computers and Peripherals

We: PENTAX IMAGING COMPANY
A Division of PENTAX of America, Inc.

Located at: 600 12th Street, Suite 300
Golden, Colorado 80401 U.S.A.
Phone: 303-799-8000 FAX: 303-790-1131

Declare under sole responsibility that the product identified herein, complies with 47CFR Parts 2 and 15 of the FCC rules as a Class B digital device. Each product marketed is identical to the representative unit tested and found to be compliant with the standards. Records maintained continue to reflect the equipment being produced can be expected to be within the variation accepted, due to quantity production and testing on the statistical basis as required by 47CFR §2.909. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. The above named party is responsible for ensuring that the equipment complies with the standards of 47CFR §15.101 to §15.109.

Product Name: PENTAX Digital Still Camera

Model Number: Optio S7

Contact person: Customer Service Manager

Date and Place: August, 2006, Colorado

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Information on disposal for users

1. In the European Union

If your product is marked with this symbol, it means that used electrical/electronic products should not be mixed with general household waste. There exists a separate collection system for these products.

Used electric/electronic equipment must be treated separately and in accordance with legislation that requires proper treatment, recovery and recycling of these products. Following the implementation by member states, private households within the EU states may return their used electrical/electronic equipments to designated collection facilities free of charge*. In some countries your local retailer may also take back your old product free of charge if you purchase a similar new one.
* Please contact your local authority for further details.

By disposing of this product correctly you will help ensure that the waste undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health which could otherwise arise due to inappropriate waste handling.

2. In other countries outside the EU

If you wish to discard this product, please contact your local authorities and ask for the correct method of disposal.

For Switzerland: Used electrical/electronic equipment can be returned free of charge to the dealer, even when you don't purchase a new product. Further collection facilities are listed on the home page of www.swico.ch or www.sens.ch.

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